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By

JAMES MAXWELL, M.D. (Lond.), F.R.C.P. (Lond.)

Assistant Physician and Demonstrator of Practical Medicine, St. Bartholomew's Hospital; Physician, Royal Chest Hospital; Consulting Physician, Royal National Sanatorium, Bournemouth

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ADDRESSES AND ORIGINAL ARTICLES

THE MODE OF ACTION OF DRUGS OF THE SULPHONAMIDE GROUP

By James McIntosh, M.D. Aberd.

DIRECTOR OF THE BLAND-SUTTON INSTITUTE OF PATHOLOGY, THE MIDDLESEX HOSPITAL; PROFESSOR OF PATHOLOGY IN THE UNIVERSITY OF LONDON; AND

Lionel E. H. Whitby, C.V.O., M.D. Camb., F.R.C.P.

ASSISTANT PATHOLOGIST, THE MIDDLESEX HOSPITAL

A number of theories have been put forward to explain the action of sulphonamide drugs in bacterial infections. Briefly, these theories may be divided into four main groups: (1) that the drugs have a stimulating action on the specific and non-specific body defences; (2) that the drugs neutralise toxic bacterial products; (3) that the drugs act on the bacteria themselves, either as germicides or in some more subtle fashion by interfering with invasive power and ability to multiply rapidly; and (4) some combination of two or more of these explanations. The following experiments deal mainly with the mechanisms of bodily defence and with the action of the drugs on the bacteria.

EFFECT ON SPECIFIC AND NON-SPECIFIC BODY DEFENCES

The discovery that 2-(*p*-aminobenzenesulphonamido) pyridine (hereafter referred to as M. & B. 693) was highly active against pneumococcus (Whitby 1938) provided an opportunity for making more conclusive studies on the question of specific stimulation of antibodies than was possible with streptococcal infections. This was because active and passive immunisation in the mouse is easy to accomplish with pneumococcus and the active immunity induced is reasonably durable. Orthodox methods of immunisation may therefore be compared as to efficiency and speed of production with the immunity created by treatment of infected animals with M. & B. 693.

Effect on leucocytes and phagocytes.—Rabbits fed intensively with M. & B. 693 over a period of four days show no changes in the leucocyte count. The drug, therefore, does not act as a simple leucocytic stimulant. Mice inoculated with living pneumococci become leucopenic if the infecting dose is sufficient to produce symptoms of illness; if the dose is so small that no illness is produced, the leucocytes remain at a normal level. The same features can be observed in mice and rabbits inoculated with large doses of living pneumococci and protected with M. & B. 693. Those animals which survive have a normal leucocyte count throughout (not leucocytosis), whereas animals which the drug fails to protect have leucopenia; but, if recovery occurs without the aid of M. & B. 693, a leucocytosis is observed. In mice and rabbits, therefore, exhibition of the drug is not associated with stimulation of leucocytes; the blood picture is an inert one which implies neither stimulation nor depression of the marrow.

During the course of numerous experiments we have examined sections of the spleens of animals inoculated with living cocci and protected with M. & B. 693. We have never been able to demonstrate anything more than a few phagocyted cocci at any stage in the recovery period. Stimulation of the phagocytic activity of reticulo-endothelial cells has been said to occur in rabbits treated with sulphanilamide (Finklestone-Sayliss, Paine, and Patrick 1937), but we have found no evidence of this feature in mice treated with M. & B. 693. Splenectomised mice are readily protected against 10,000 lethal doses of pneumococci, provided that feeding with the drug is prolonged. Feeding up to the 4th day is sufficient to eradicate the infection in ordinary circumstances, but with splenectomised animals, if feeding is stopped on the 4th day, a considerable number of animals die on the 6th, 7th, or later days. The spleen would thus appear to play some part in completing the clearance of the infection. Gross, Cooper, and Peebles (1937) also found that splenectomy did not prevent the protective action of sulphonamide in mice infected with streptococci; protection was the same as with normal mice.

Specific antibodies and specific protection.—The first point to receive consideration was the efficiency of the immunity conferred by active immunisation with killed vaccine as compared with that found in animals inoculated with living pneumococci and afterwards saved by the oral administration of M. & B. 693. It is not possible to immunise actively with small doses of living pneumococci, because with a virulent strain the animals are unable to survive an inoculation which theoretically contains no more than one pneumococcus. In a series of experiments it was readily shown that mice which survive inoculation with 10,000 lethal doses of pneumococci, having been treated with 30 mg. of M. & B. 693 as previously described (Whitby 1938), are, one week later, completely immune to a second inoculation with as much as 1,000,000 lethal doses without further treatment. This immunity, at the end of one week, is not due to retention of M. & B. 693 in the body, because none can be demonstrated in the blood; nor is the immunity due to any subtle action of M. & B. 693 on the immunity-producing mechanism, because mice which have a parallel course of M. & B. 693 but receive no inoculation with pneumococci are not immune at the end of a week. Furthermore, the immunity produced by saving infected mice with M. & B. 693 is definitely related in a quantitative manner to the infecting dose. Thus, mice infected with 100 lethal doses of cocci and saved with M. & B. 693 are not nearly so immune to subsequent inoculation as are those infected with 10,000 lethal doses of cocci. This solid immunity to pneumococcus is specific for pneumococcus and specific for type in the same way as when immunity is created on orthodox active lines, despite the fact that M. & B. 693 acts on numerous types of pneumococci.

Turning now to the question of active immunisation with killed pneumococci, it was found that 1,000,000 lethal doses of killed pneumococci—an antigen of approximately the same size as 10,000 lethal doses of living cocci, because the latter undergo multiplication during the first few hours of the experiment (see table II)—provides, at the end of a week, immunity to inoculation with between 10,000 and 1,000,000 lethal doses of living cocci, an immunity which is as efficient as that found in mice which are saved with M. & B. 693, as described above. Finally, mice immunised with killed cocci and given a course of M. & B. 693 are not more effectively immunised.

The above series of experiments was then extended to compare the speed of production of immunity, especially as to whether the administration of

M. & B. 693 increased the speed. Five batches of six mice for each of the following groups were used:—

(1) Receiving 1,000,000 lethal doses of killed cocci.
(2) Receiving 1,000,000 lethal doses of killed cocci and a daily dose of 30 mg. M. & B. 693.
(3) Receiving 10,000 lethal doses of living cocci and a daily dose of 30 mg. M. & B. 693.

The development of immunity was tested by taking daily a batch of six mice from each group and inoculating the batch with 10,000 lethal doses of living pneumococci. Thus, batches of six mice from each group were tested for immunity on the 1st, 2nd, 3rd, 4th, and 5th days after primary inoculation. Analysis of the results showed clearly that no immunity developed in any group until the 3rd day, and that there was no solid immunity until between the 4th and 5th days. Since the result was the same in each group, it may be concluded that M. & B. 693 does not affect the speed with which immunity is produced. Furthermore, the serum from mice cured of infection with M. & B. 693 showed protective power for other mice treated with it when such serum was derived from mice killed about the 5th day. Serum from mice inoculated with 1,000,000 dead bacteria also developed protective powers about the 5th day, irrespective of whether the mice were just vaccinated or also given M. & B. 693 as well as vaccination.

The speed of production of immunity has also been investigated from the aspect of agglutinin production—a phenomenon of immunisation which is demonstrable in vitro. Pneumococcal infections in mice as well as active immunisation with doses of killed cocci of the size described above do not produce agglutinins of titre high enough to allow of clear-cut deductions. We therefore used a living Vi strain of *Bact. typhosum*. With this strain 10^9 bacteria were 100 per cent. lethal to mice, whereas 10^8 were just sublethal. With a dose of 10^9 bacteria, 33 per cent. of mice could be protected by the administration of 50 mg. of sulphanilamide distributed in five doses over 3 days. Two groups, each of eighteen mice, were examined for Vi, O, and H agglutinins on different days after inoculation. One series received an inoculation of 10^8 living bacteria only—the maximal sublethal dose. The other series received a similar inoculation but were also treated with five doses of sulphanilamide (10 mg.) over a period of 3 days. In both groups agglutinin production to all three types of antigen was not detectable until the 3rd day after inoculation; thereafter the titre increased on the 4th, 5th, 6th, and 7th days. Further observations could not be made, because sufficient blood for a satisfactory test involved killing the animals. The experiment provided a clear-cut result showing that animals treated with sulphanilamide develop agglutinins neither earlier nor in higher titre than those which did not receive the drug.

Conclusion.—The administration of sulphonamide drugs has no stimulating action on the body defences, nor does such administration affect the quality, quantity, or speed of production of recognised specific antibodies.

EFFECT ON BACTERIAL GROWTH IN VITRO AND IN VIVO

Effect on the appearance of the organism.—That sulphanilamide may cause capsular degenerative changes in streptococci was first observed by Levaditi and Vaisman (1935). The phenomenon is more easily observed with pneumococcus. After the intraperitoneal inoculation of pneumococci into mice, samples have been withdrawn and examined at short intervals for evidence of capsular and other changes. This has been carried out in mice treated with M. & B. 693, both prophylactically and at the time of inoculation, as well as in untreated controls. In both types of treated animals, at the end of about two hours the capsule of the pneumococcus appears to be enlarged and to have a rough crenated edge; the number of such cocci increases after four hours until most of the organisms show this change. In large numbers of cocci no capsule can be found by staining methods; but we have not been able, in mice, to demonstrate that this apparent capsular loss is accompanied by loss of type specificity as did Telling and Oliver (1938) in the human subject. Furthermore, cocci cultivated from blood-stream infections late in the course of a treated infection (see below) have shown neither capsular loss nor loss of virulence. The explanation of this apparent discrepancy will be discussed later.

Effect on multiplication at the site of inoculation.—In mice inoculated intraperitoneally with pneumococci and protected with M. & B. 693, given prophylactically and at the time of inoculation, the organisms multiply for the first few hours after inoculation, but not nearly to the same extent as in unprotected controls. No cocci can be found in peritoneal samples of protected mice at the end of twenty-four hours after inoculation. There is no evidence that this multiplication within the first few hours is in any way due to lag in absorption of the drug; comparable multiplication occurs in animals which receive the drug prophylactically. Furthermore, it is obvious from blood-culture results (see below) that pneumococci inoculated into the peritoneal cavity enter and multiply in the blood-stream for a few hours. Indeed in a high proportion of rabbits inoculated with pneumococci intravenously the blood-stream multiplication of the coccus appears, for a period of a few hours, to be even more rapid in animals treated with M. & B. 693 than in control animals (table I).

TABLE I—BACTERIA PER C.CM. OF BLOOD, IN TREATED AND UNTREATED RABBITS, AT VARIOUS TIMES AFTER INTRAVENOUS INOCULATION OF 10,000,000 LIVING PNEUMOCOCCI

Exp. 246/38	1 hour	3rd day	4th day	5th day	6th day
Treated with M. & B. 693	1875	5000	3200	1500	Dead
	338	4	0	0	0
	1288	156	0	0	0
Untreated controls	82	1672	7400	—	Dead
	26	—	Dead	—	—

Effect on invasive power.—When mice are inoculated intraperitoneally with living cocci, there follows an invasion of the blood-stream which quickly leads to the death of the animals. Mice protected either with Felton's serum or with a previous infection cured by M. & B. 693 do not suffer blood-stream invasion after intraperitoneal inoculation (table II). But, when mice are inoculated intraperitoneally with 10,000 living pneumococci, M. & B. 693 does not prevent blood-stream invasion, whether the drug is given prophylactically or at the time of inoculation; blood-stream multiplication also occurs for a period of at least seven hours, but it is definitely held in check and occurs only for a limited period. In animals which recover, the blood-stream becomes clear in about twenty-four hours. It is evident, therefore, that any bactericidal action of the drug does not

TABLE II—COMPARISON OF THE EFFECT OF M. & B. AND OF SPECIFIC IMMUNE BODIES IN PREVENTING BLOOD-STREAM INVASION AFTER INTRAPERITONEAL INOCULATION WITH PNEUMOCOCCUS

—	Bacteria per 0·2 c.cm. of blood		
	2 hr.	7 hr.	24 hr.
Controls. Bacteria only. No drug. 12 mice. 4 examined at each period.	1500	500,000 +	Dead
	6500	500,000 +	Dead
	4000	500,000 +	Dead
	6000	500,000 +	Dead
12 mice. M. & B. 693 given at time of inoculation, 7 hours, and 24 hours. 30 mg.	2000	5000*	50*
	3000	300*	6*
40 mg.	1500	1500*	0
	2500	4000*	50*
Immune animals from a previous M. & B. 693 experiment. 6 mice.	Nil	Nil	Nil
	Nil	Nil	Nil
Animals given 0·02 c.cm. type I serum 30 minutes after intraperitoneal inoculation. No drug. 6 mice.	Nil	Nil	Nil
	Nil	Nil	Nil
M. & B. 693 (40 mg.) given 6 hours before and again at time of inoculation and 7 hours. 9 mice.	800	1600	Nil
	400	1000	Nil
	1500	4000	Nil

* Three colonies from each of these plate counts were grown in broth and tested with type I agglutinating serum. Capsules appeared normal and type specificity was not lost in such cultures.

Mice were inoculated intraperitoneally with 10,000 pneumococci type I. Quantitative blood-cultures were made with 0·2 c.cm. of blood obtained by heart puncture after killing with chloroform.

instantly become effective. Time is required for the infection to be overcome. Blood-cultures from rabbits inoculated intravenously with 10,000 pneumococci have shown that the clearance of the blood-stream takes longer than twenty-four hours in such animals as recover after prophylactic and continuous treatment with M. & B. 693 (table I).

Table II shows that M. & B. 693, given prophylactically or at the time of inoculation, does not prevent blood-stream invasion, whereas passive immunisation with Felton's serum or active immunisation with a previously cured infection does prevent such invasion.

EFFECTS IN VITRO

A survey of published work and of our experiments makes it clear that the bacteriostatic and bactericidal activity of these drugs varies with the medium in which the test is made, and it is clear that the results in certain laboratory media do not run parallel with in-vivo activity. Thus sulphanilamide is active against streptococci in vivo but is inactive in peptone-containing broth, whereas the same drug is active against pneumococcus type I in peptone-containing broth (Britton 1938) but is almost inactive in vivo. A summary of bacteriostatic activity in different media is shown in table III.

Impressed with what may be called the "lag" in action of the drugs when used in living animals, we have been at pains to discover whether there was a similar lag in vitro. Table IV shows the bacterial population, at different times, in 2 c.cm. of citrated rabbit's blood containing M. & B. 693, after incubating it at 37° C. with different numbers of pneumococci. There is also shown the concentration of M. & B. 693 in the blood before and after the experiment, this concentration having been attained by feeding the animals before bleeding for the experiment. The numbers of bacteria are expressed as per cubic centimetre of blood. The citrated blood was obtained from three animals, one of them being an unfed control.

Three points of importance arise out of table IV:

(1) The drug is not instantly active; the bacteria multiply during the first two hours to about the same degree as in the control; the restraining action of the drug is apparent in six hours, and sterilisation is accomplished in twenty-four hours. This lag in action is also found in the living animal (tables I and II).

(2) There is a suggestion that there is quantitative relationship between the effective concentration of the drug and the number of bacteria. Thus a concentration of 4·2 mg. per 100 c.cm. extinguishes an inoculum of 500 organisms, whereas a concentration of 16 mg. per 100 c.cm. is effective against 50,000.

(3) So far as can be ascertained from the quantitative diazo colour test, the concentration of M. & B. 693 is the same at the end of forty-eight hours, whether the drug has exerted its action or not.

TABLE III—BACTERIOSTATIC ACTIVITY OF M. & B. 693 AND SULPHANILAMIDE, EXPRESSED AS +, SLIGHT, OR 0, IN VARIOUS MEDIA IN VITRO

Medium	Streptococcus (Richards)		Pneumococcus (type I)	
	Sulphanilamide	M. & B. 693	Sulphanilamide	M. & B. 693
Blood	+	+	Slight	+
Serum	+	+	Slight	+
Serum broth	0	0	Slight	+
Peptone broth	0	0	+ or slight	+

An extension of these experiments showed that the same result could be obtained with serum as with citrated blood and when M. & B. 693 was added to shed citrated blood in the test-tube. From these last results it may be concluded that leucocytes are not necessary for the action of the drug, and that the drug need not be absorbed into the animal body (to undergo some change) before it is effective.

Further experiments were carried out to determine more clearly whether there was a quantitative relationship between drug concentration and the

TABLE IV—NUMBER OF BACTERIA IN BLOOD CONTAINING M. & B. 693 AFTER INCUBATION WITH PNEUMOCOCCI

Concentration of M. & B. 693 (mg. per 100 c.cm.) ..	4·2			16·0			Nil		
Bacteria inoculated	50,000	500	5	50,000	500	5	50,000	500	5
No. of bacteria— 2 hours	4,000,000	7000	90	70,000	800	10	2,000,000	3000	100
6 hours	+ + +	8000	40	80,000	2000	100	+ + +	+ + +	+ +
24 hours	+ + +	Nil	Nil	Nil	Nil	Nil	+ + +	+ + +	+ +
48 hours	+ + +	Nil	Nil	Nil	Nil	Nil	+ + +	+ + +	+ +
Concentration M. & B. 693 in 48 hours	4	4	4	16	16	16	Nil	Nil	Nil

number of bacteria affected. The results are shown in table V. With an inoculum of 150,000 pneumococci (not included in table V) no effect was obtained with concentrations of the drug up to 16 mg. per 100 c.cm.

From these results it is clear that the limit of activity of M. & B. 693 in a concentration of 16 mg. per 100 c.cm. is somewhere between 50,000 and 150,000 pneumococci. The quantitative grading is well shown in tables IV and V. Thus 16 mg. per 100 c.cm. is effective against 50,000 organisms and the lesser numbers of 15,000, 150, and 2; 8 mg. per 100 c.cm. is effective against 150 and 2; 4 mg. per 100 c.cm. just fails to deal with 150 but is effective against 2; and 2 mg. per 100 c.cm. is ineffective against even the smallest inoculum of this particular strain in this particular medium. Tables IV and V also show well the failure of the drug to be instantly active, even with an inoculum as small as 2 organisms and a concentration of the drug as high as 16 mg. per 100 c.cm.; in all cases there is definite bacterial multiplication for at least six hours. The same phenomenon therefore occurs in both in-vivo (tables I and II) and in-vitro experiments.

TABLE V—RELATION OF CONCENTRATION OF DRUG TO NUMBER OF BACTERIA

Experiments with 2 c.cm. of citrated rabbit's blood. Bacteria expressed as per c.cm.

Size of inoculum ..	15,000 (10^{-6})					150 (10^{-8})					2 (10^{-7})				
Concentration of M. & B. 693 (mg. per 100 c.cm.) ..	16	8	4	2	0	16	8	4	2	0	16	8	4	2	0
Bacteria — 6 hours	++	++	++	++	++	3000	8000	9000	60,000	80,000	100	70	7000	15,000	30 000
24 hours	2000	10,000	++	++	++	Nil	Nil	20	++	++	Nil	90	2500	++	++
48 hours .. .	Nil	++	++	++	++	Nil	Nil	120	++	++	Nil	Nil	Nil	++	++

Phase of the bacterium.—The in-vitro experiments described above were carried out with inocula from a six-hours' culture in O'Meara's broth of a highly virulent strain of type I pneumococcus. Such a culture is in the active logarithmic phase of multiplication and is the same as that used for our in-vivo experiments. But when the virulent type I pneumococcus used in these experiments was subcultured until "rough" colonies could be isolated, these "rough" organisms were unaffected by M. & B. 693 under in-vitro conditions. This feature—namely, alteration in the phase or virulence of the organism—must explain many of the discrepancies between the results of different workers when reporting on in-vitro activity.

DISCUSSION

The experiments reported here support the view that sulphonamide drugs have no stimulating action on leucocytes, phagocytic cells, or the specific immune defences of the body. Furthermore, in that an in-vitro effect can be demonstrated in serum or broth as well as in whole blood, it would not seem that leucocytes are a primary requirement.

Concerning the action of the drugs on the micro-organisms it is necessary to explain (1) the capsular degeneration; (2) the failure of the drugs to check local multiplication and to prevent invasion of the body; (3) the time-lag before the drugs become effective either in vivo or in vitro, and the tendency even to primary stimulation of growth which has also been found by us and others (Colebrook, Buttle, and O'Meara 1936, Finklestone-Sayliss, Paine, and Patrick 1937); (4) the quantitative relationship between the effective dose of the drug and the number of bacteria; (5) the fact that the drugs act best on young actively multiplying virulent organisms; and (6) the variations in in-vitro activity according to the medium in which the test is made.

Capsular degeneration is an in-vivo phenomenon and, by ourselves, has only been observed in peritoneal samples; this degeneration may as easily be nothing more than the final process by which the body rids itself of dead pneumococci as be due to a primary action of the drug on the organism. Telling and Oliver (1938) found, in a case of type III lobar pneumonia treated with M. & B. 693, that the sputum later contained a non-encapsuled coccus. It would appear probable that this coccus, an avirulent one, was present simultaneously with the original type III coccus but, being insusceptible to M. & B. 693, naturally persisted in the sputum after the virulent organism had been eliminated.

So far we have been unable to determine any definite fixation of the effective substances by the bacterium in vitro, for, even when considerable concentrates of the microbes were added, no appreciable loss of the drug could be determined after the micro-organisms had been removed by centrifugalisation. It is too soon to say whether this fact in any way removes the action of these drugs from the conception envisaged by Ehrlich for chemotherapeutic remedies in general.

One explanation of the six points set out for discussion would be that in the sulphonamide drugs have at last been found substances which exert a simple germicidal action in vivo as well as in vitro. Such an explanation would mean that the action is in striking contrast with that of the germicides phenol, acriflavine, and brilliant green, which we have tested and found to show no evidence of a "lag" in action and certainly no tendency to exert an initial stimulation on the organism. Furthermore, it is hardly probable that a protoplasmic precipitant or coagulant would so carefully differentiate between an identical organism at different phases of growth or between different strains of β-hæmolytic streptococci in the same way as sulphonamide (Hoare 1938). The action appears therefore to be much more subtle than that of a simple germicide. The failure of the drugs to check the initial local multiplication and invasion is obviously due to the "lag" in action, and the lag suggests a slow combination or neutralisation by the drug operating on some essential food substance or enzyme. The initial growth of the bacterium would then depend on the carrying over in the inoculated bacteria of the essential factor, because even very small numbers of bacteria with a high concentration of the drug nevertheless exhibit the lag. That combination or neutralisation occurs

is suggested by the quantitative relationship between drug and bacterium. The final pointer is given by the variability in action of the drugs on bacteria according to the phase of growth, according to the individual strain tested, according to whether the organism is rough or smooth and according to the medium presented for food-supply. A reasonable interpretation of table III is that, in the case of streptococcus, when either sulphanilamide or M. & B. 693 is present, peptone broth supplies something to the organism which blood lacks, whereas in the case of pneumococcus both blood and broth lack something essential to the organism. It is clear that, since peptone inhibits the action of both sulphanilamide and M. & B. 693 on streptococcus but not on pneumococcus, the two organisms differ in the way in which the drug acts on them, and, although the modes of action may be the same in principle, there must be differences in detail. The most rational explanation of these experimental facts is that the sulphonamide drugs in some way block the vital food-supply of bacteria, both drugs being equally effective in blocking the vital food for streptococcus but M. & B. 693 being decidedly more effective than sulphanilamide in blocking that for pneumococcus. It is hardly conceivable that, in an abundant medium such as an animal's blood-stream, an actual food factor should be destroyed or fixed, but it is conceivable that the bacterial enzyme, of which this food factor is the substrate, should be inactivated. Rough and avirulent organisms, themselves insusceptible to these drugs, have not the exacting food requirements of virulent bacteria, and the failure of the sulphonamide drugs to affect virus infections, as found by ourselves and others, could be explained by the feeble enzymatic action which viruses are known to have. It would appear therefore that the mode of action of the sulphonamide drugs is most probably bound up with the inactivation of bacterial enzymes, but for the complete solution of the problem we must depend on activities of the bacterial chemist. In this conclusion we are in agreement with Lockwood (1938) and Locke, Main, and Mellon (1938).

SUMMARY

(1) Sulphonamide drugs do not stimulate leucocytic or phagocytic activity.

(2) Sulphonamide drugs do not affect the speed of production or the quantity and quality of specific immune bodies.

(3) Sulphonamide drugs, both in vivo and in vitro, are not instantly active, and there is a quantitative relationship between the effective dose of the drug and the number of bacteria affected.

(4) Sulphonamide drugs are active on highly virulent organisms and those in the logarithmic phase of multiplication; they are inactive on "rough" organisms.

(5) Sulphonamide drugs are not simple germicides. They probably act by neutralisation of some metabolic function or enzymatic activity.

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TRIAZOL 156 IN CHRONIC SCHIZOPHRENIA

By I. Atkin, M.D. Lond., D.P.M.

DEPUTY MEDICAL SUPERINTENDENT, PARK PREWETT MENTAL HOSPITAL, BASINGSTOKE

This report deals with 254 convulsions elicited in twelve female patients suffering from schizophrenia of two to eighteen years' duration (average eight years and eight months). It was particularly desired to find whether any amelioration of symptoms could be effected in chronic cases.

TECHNIQUE

Each patient treated was given a thorough physical examination to exclude organic disease. This included blood-tests (Meinicke and Kahn), routine investigation of urine, and a four-hourly temperature record, the last being continued throughout the treatment. The injections were administered in a common dormitory, the beds being separated by screens, except where a patient proved nervous or resistive, when a single room was utilised. A 5 c.cm. syringe graduated in fifths or a 2 c.cm. syringe graduated in tenths was used according to the amount of Triazol required.

I have not found that premedication with a sedative necessitates an increased dose of the convulsant. If, therefore, the patient was very resistive or unduly apprehensive, an injection of morphine sulphate gr. ¼ with hyoscine hydrobromide gr. 1/100 and atropine sulphate gr. 1/150 was given half an hour previously. This, however, was only occasionally necessary. Breakfast was omitted, but a drink of sweetened tea or lemonade was allowed early in the morning.

An attempt was made to elicit a convulsion every fourth day (two days' interval), and at least twenty convulsions were elicited before all hope of improvement was given up. Circumstances necessitated a fortnight's interval in the middle of the course, and this, as will be explained below, accounts for the final effective doses being lower than they would otherwise have been.

INTRAVENOUS DOSAGE

By intravenous injections 120 convulsions were elicited in six patients. The minimal convulsant dose used was 0·7 c.cm. and the maximal 2·3 c.cm., the range of effective initial doses being 0·7–1·1 c.cm. Our experience made it the practice to begin with 1 c.cm.,* since below this amount there are too many initial failures. If no convulsion resulted, the dose was increased by 0·2 c.cm. at a time. The left and right arm were injected alternately, pressure was made with a swab immediately the needle was withdrawn, and a bandage was applied. In this way bruising was always avoided.

The first sign of the drug's action was twitching of the eyelid muscles. Then generalised muscular spasms appeared, 5–30 seconds after the injection. After an interval of less than a minute in 79 per cent. of treatments (exceptional times were up to twelve minutes) there was a typical epileptic fit. When the interval was more than one minute, an increase by 0·1 c.cm. or 0·2 c.cm. on the next occasion usually brought on the fit more quickly, and this was always considered desirable. On the other hand, if the fit was regarded as too powerful, or if two occurred, the subsequent dose was diminished by 0·1 c.cm.

* Further experience has shown that with patients of small build an initial dose of 0·5 c.cm. may produce a convulsion. In such cases it is now my practice to commence with 0·7 c.cm.

With regard to the dosage in succeeding injections, a definite but variable tolerance to the drug developed in five of the six patients, necessitating a final effective dose of from one and a half to more than twice the initial dose. Such tolerance does not last long and disappears partly or completely if the drug is withheld for two weeks. If treatment is resumed after such an interval, one should start with the original effective dose; otherwise a batch of fits will result. This aspect is dealt with in more detail in the next section.

INTRAMUSCULAR DOSAGE

We used intramuscular injections when there were no convenient veins available, or when the patient was excessively resistive, and 134 fits were thus elicited. The minimal effective dose used was 0·9 c.cm. and the maximal 2·8 c.cm., the range of successful initial doses being 0·9–1·8 c.cm. Our experience led us to begin with 1·3 c.cm., and the principles of increase or diminution of dose in subsequent injections are the same as for the intravenous route.

In the great majority of instances the fit was preceded by a period of myoclonic movements, which began 3–12 minutes after the injection and lasted 2–18 minutes. On only five occasions (4 per cent.) did the fit occur after half an hour from the time of injection (32, 35, 47, 50, and 60 minutes were the exceptional instances). Occasionally there was no myoclonus, the fit occurring suddenly, and in such cases the reaction time was very short. During the incubation period the patient appeared only partly conscious, and, as with the intravenous route, there was no subsequent memory of it.

Development of tolerance was the rule here. The following is an illustrative series (each + denotes a fit): 1·5 (++), 0·9, 1·1, 1·3 (+), 1·3, 1·5 (+), 1·5, 1·7 (+), 1·7 (+), 1·8, 2·0 (+), 2·0, 2·2 (+), 2·2, 2·5 (+).

It will be noted that the first dose of 1·5 c.cm. was too high and produced two fits. On the seventh occasion, however, this dose proved ineffective, and the amount had to be worked up to 2·5 c.cm. At this stage there was an interval of two weeks, after which a dose of 1·5 c.cm. produced a single fit only, showing that tolerance had considerably decreased during this interval. In two other cases the dose last used was repeated after a similar interval, with the result that batches of three and four fits occurred, succeeding each other at intervals of 10–15 minutes. The possible beneficial effect of multiple fits has been suggested by Walk and Mayer-Gross (1938b), but the aim in this series of cases was to obtain one fit only at each treatment.

SUPPLEMENTARY DOSE WHEN NO FIT OCCURS

It is generally accepted that to obtain the best results a convulsion should be elicited at each séance. Since, in contrast to Cardiazol, triazol disappears comparatively slowly from the blood, the second dose should be less than the first if it is given after only a short interval. The system of dosages suggested here is necessarily tentative and will no doubt have to be modified with further experience, but so far it has worked in the great majority of instances. As regards the intravenous route, several tests have shown that very little of the triazol disappears in 5 minutes. An example is given in table I. After 10 minutes, however, there appears to be an appreciable destruction or excretion of the drug, at least sufficient to make the difference between the occurrence and non-occurrence of a fit. An example is given in table II.

The practice followed was that if no convulsion occurred after 5 minutes a supplementary dose of 0·2–0·6 c.cm. was given in the other arm. Smaller amounts were used when myoclonus still persisted, and larger amounts when the effect of the first injection was slight. With the intramuscular route

TABLE I—TO SHOW THAT VERY LITTLE TRIAZOL DISAPPEARS IN FIVE MINUTES

Date in 1938	Dose (c.cm.)	Effect
Aug. 16	1·8	Fit after 25 sec.
„ 19	1·8	„ 11 min.
„ 22	0·9 followed by 1·0 after 5 min.	Fit 20 sec. after second injection
„ 25	2·0	Fit after 20 sec.
„ 29	2·0	„ 30 sec.
Sept. 1	1·1 followed by 1·0 after 4½ min.	Fit 2½ min. after second injection
„ 4	2·0	Fit after 4 min.

TABLE II—TO SHOW APPRECIABLE DISAPPEARANCE OF TRIAZOL AFTER TEN MINUTES

Date in 1938	Dose (c.cm.)	Effect
Sept. 6	1·2	Fit after 3½ min.
„ 12	0·8 followed by 0·4 after 10 min.	No convulsion
„ 15	1·1	Fit after 30 sec.

it was found that a second dose equivalent to a third of the first, repeated after half an hour, was generally successful in producing a convulsion. At first a quarter had been tried, but this was ineffective; and half the first dose sometimes resulted in two fits. By following the above system of supplementary injections there will be very few failures in eliciting a convulsion.

SPECIAL FEATURES

(1) With an inadequate dose, muscular spasms only occurred. Sometimes there was a state of excitement and aimless restlessness.

(2) With a dose somewhat beyond the adequate one, two or three convulsions resulted.

(3) On one occasion, when an injection was inadvertently given subcutaneously, the patient became emotionally agitated and, besides exhibiting infrequent myoclonic movements, talked continuously in a disjointed manner for about an hour concerning her past life. It is possible that useful psychological material may be elicited in this manner for purposes of psychotherapy.

(4) The tendency to post-convulsion vomiting was very variable, some patients being more sensitive than others in this respect. In all but one case the vomiting centre soon became tolerant, and this symptom ceased to be bothersome. In this single patient premedication with atropine was tried, as suggested by Walk and Mayer-Gross (1938a). A dose of gr. 1/50 was found to be effective in preventing vomiting.

COMPLICATIONS

There were no fractures or dislocations. With the intravenous route no thrombosis or sclerosis was noted; with the intramuscular route there were no local reactions. No cardiac arrhythmias occurred. One patient exhibited a tendency to "swallow" her tongue immediately after the fit and at times

became very cyanosed; this was immediately relieved by pulling the tongue out with forceps. The only complication was the development of acute pulmonary tuberculosis.

The patient had shown no pyrexia or other signs before the treatment or during the first eight weeks of treatment. After the fourteenth convulsion, about two hours after the injection, she became cyanosed, with shallow breathing. Oxygen relieved her condition, and she seemed her usual self in the evening. The next day her temperature was 100° F., and she was troubled by a dry cough. Crepitations in the right lung were noted, the temperature began to swing, and she died twenty-six days after the fourteenth convulsion. Sputum was not available for examination, but tubercle bacilli were found in the urine nine days before death.

This suggests an acutely severe bacteræmia, and there is no doubt that the fit activated an old healed lesion in the lungs. The possibility of such a danger has been referred to by Cook and Ogden (1938), and in chronic schizophrenics, who are said to be unduly liable to tuberculosis, it would be advisable to examine the chest radiographically † before starting convulsive treatment. Whether the old lesion in this particular case would thus have been made apparent it is impossible to say, because no autopsy was permitted. Fortunately this fatal outcome was not so tragic as it may appear, since the patient had been under certificate for over 18 years, was noted as very regressed in 1921, and a recovery was hopeless in the ordinary way.

A similar case during treatment with cardiazol was reported by Harris and Birnie (1938). Such a complication is therefore not peculiar to triazol but may occur in any form of convulsive therapy. I am not aware that any special explanation has been offered for this eventuality; I regard it as comparable to the awakening of a latent pulmonary focus, such as not uncommonly happens as a sequel to whooping-cough. In both instances there is a great strain on the pulmonary tissues, and it is possible that the hyperventilation which follows a fit brings about a rupture of an old healed lesion, thus setting tubercle bacilli free into the system.

RESULTS

No very startling results could be expected in this series, recoveries being very uncommon with any form of treatment in cases of over two years' duration. Three out of the twelve cases showed some improvement, this consisting of much lesser degrees of dependence, employability of a higher grade, and increased alertness. The following is an example of a pronounced effect.

The patient, aged 45, was under certificate for six years and four months. There was a history of a previous mental attack at the age of 18. She had been in a state of katatonic stupor for over five years. She was mute, destructive, and unemployable; she ate like an animal and was terribly filthy in habits. Her progress under treatment was as follows:—

Aug. 27–Sept. 16, 1938. Six convulsions elicited.

Sept. 18. Habits clean. Not destructive. Washes herself. Uses knife and fork. Has begun to speak but in a very disconnected manner.

Sept. 22–Oct. 28. Five convulsions elicited.

Oct. 28. Has been helping in wardwork and occupies herself knitting in the arts and crafts class.

Nov. 4–7. Two convulsions elicited.

Nov. 9. Able to talk about her past life but in a very rambling manner. Answers many questions relevantly but often incorrectly—e.g., gives her age as 26. Has written a letter home for the first time since admission.

Nov. 10–29. Seven convulsions elicited.

Nov. 29. Maintains improvement. Has written another two letters home.

Though none of the patients recovered, such improvement as is illustrated by this case is a great boon in a mental hospital, where a large proportion of the chronic inmates are schizophrenics.

SUMMARY

(1) A system of triazol dosage for intravenous and intramuscular injection is outlined, based on experience from the production of 254 convulsions.

(2) A proportion of chronic schizophrenics are benefited, and this would make the treatment worth while from the subsequent ease in the nursing of such patients.

(3) The danger of awakening latent pulmonary tuberculosis is illustrated by a case which ended fatally.

(4) Triazol is a reliable convulsant for both intravenous and intramuscular use, a series of fits having been successfully induced in all the cases tried. It is without danger in subjects free from organic disease, in whom no complications or sequelæ were noted.

I wish to express my thanks to Dr. V. L. Connolly, the medical superintendent, for permission to carry out this investigation; to Dr. T. Gilchrist for helping me with the injections; to the nursing staff for their enthusiastic coöperation; and to C. H. Boehringer Sohn of Nieder-Ingelheim for giving us a liberal supply of triazol.

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† Since the above was written, Dr. J. C. Speers, in a paper read before the S.W. division of the Royal Medico-Psychological Association on Oct. 27, 1938, has recommended routine radiography of the lungs.

REMISSIONS IN SCHIZOPHRENIA

INSULIN AND CONVULSION THERAPIES COMPARED WITH ORDINARY TREATMENT

BY HARRY STALKER, M.B. Edin., D.Psych.
SENIOR ASSISTANT PHYSICIAN TO THE ROYAL EDINBURGH HOSPITAL FOR MENTAL DISORDERS; LECTURER IN PSYCHIATRY, UNIVERSITY OF EDINBURGH; AND

W. MALCOLM MILLAR, M.B. Edin.

AND

J. M. JACOBS, M.B. Edin.
ASSISTANT PHYSICIANS TO THE HOSPITAL

THIS paper describes briefly and compares the results obtained in the treatment of 218 cases of schizophrenia divided into three series according to whether treatment was by ordinary hospital methods, by hypoglycæmia, or with convulsant drugs. Results from the two special treatments in other psychiatric illnesses are also described. Diagnostic terms are used in the sense given to them by Henderson and Gillespie (1936). In particular, paranoid reaction-types are grouped separately from schizophrenia. This is a preliminary report, and we hope to publish at a later date detailed analyses of each series, giving criteria of diagnosis, technical information about treatment, and reports of cases.

It was possible to follow up the first series for periods varying from three months to five years after discharge and the second series for three to nine months; the third series has no follow-up. The results in

each series are classified in five parallel and nearly comparable groups :—

Group I (complete remission).—These are the patients in each series showing absence of all symptoms and having insight into the illness. They have been discharged from hospital and are leading a normal social life. In the first two series the patients have returned to their usual occupations.

Group II (social remission).—This applies to the first two series only and means those patients who are leading a normal social life and following their usual occupations but continue to show some schizophrenic symptoms, varying from lack of insight to hallucinations.

Group III (at home improved).—These are patients who have shown definite improvement and have been able to return home. All such patients in the first and second series have been at home for at least five months, except one in the second series.

Group IV (remitted and relapsed).—This applies only to patients treated by ordinary hospital methods. They have had a remission of any degree which has allowed them to be at home for at least three months, but they have now relapsed.

Group V (unimproved).—These are patients who have not had a remission of at least three months.

TREATMENT BY ORDINARY HOSPITAL METHODS

The patients in the first series were treated by investigation, understanding and discussion of the patient's personality, environmental difficulties, and habits of reaction ; attempts at resocialisation in the hospital and on discharge ; occupational therapy ; and, when necessary, attention to the physical health, especially to focal sepsis. All first admissions for schizophrenia during the five-year period from Aug. 1, 1932, to July 31, 1937, have been investigated. There were 133 such cases, of which 129 have been traced. For the follow-up some patients were personally interviewed by the psychiatrist ; in other cases a relation was interviewed ; and in others one had to depend on a written report by the patient or a relation. This follow-up was begun in September, 1938, fourteen months after the last case had been admitted. The results are as follows :

Group	Cases and per cent.
I—Complete remission	15 (12)
II—Social remission	11 (8)
III—At home improved	12 (9)
IV—Remitted and relapsed	27 (21)
V—Unimproved	64 (50)
Total	129

Of the 15 complete remissions 12 patients have kept well for over two years and 1 for over a year, and 2 had a second attack from which they again recovered. Death resulted in 1 case in group IV and 5 cases in group V. In analysing the records of the patients with complete remissions it was found that 7 of them had suffered from an acute schizophrenic illness which could not be fitted into any of the standard subgroups. Recoveries occurred, but much less frequently, in the simple, catatonic, paranoid and hebephrenic subgroups ; the remission-rates within each subgroup were much the same.

TREATMENT BY HYPOGLYCÆMIA

Since March, 1936, insulin treatment, according to the method of Sakel (1935), has been used in this hospital. Patients were treated with or without shocks according to the type of illness. The number of shocks given varied from 3 to 60 ; the duration of treatment varied from 15 to 94 days. In most cases 30 shocks were given unless improvement occurred earlier. The follow-up consisted of a personal interview in each case. This series includes 50 cases, of whom 48 suffered from schizophrenia and 2 from anxiety states. The results in schizophrenia are as follows :—

Group	Cases and per cent.
I—Complete remission	6 (13)
II—Social remission	6 (13)
III—At home improved	5 (10)
V—Unimproved	31 (64)
Total	48

Of the anxiety states 1 showed a social remission and the other no improvement. Analysis of the remitted cases showed that 4 belonged to the paranoid subgroup, 1 to the simple, and 1 to the catatonic subgroup. In all but one case the illness began with depression ; in 4 cases it began within six months of admission.

TREATMENT WITH CONVULSANT DRUGS

In July, 1938, Cardiazol and Triazol therapy was begun. Since then 68 patients have been treated, of whom 41 suffered from schizophrenia and 5 from paranoid reactions. Full convulsant doses were aimed at, and the number of fits given varied from 2 to 35 ; the lower numbers apply to patients who made a quick recovery or refused further treatment. Treatment was refused by 15 patients ; 17 others disliked the treatment but did not refuse it. Complications included 3 cases of dislocation of the jaw, one of extrasystoles persisting for three days, one of double vertebral compression fracture (Stalker 1938), and several of temporary impairment of memory. The results are as follows :—

SCHIZOPHRENIA

Group	Cases and per cent.
I—Complete remission	4 (10)
III—At home improved	13 (32)
V—Unimproved	24 (58)
Total	41

PARANOID REACTIONS

Group	Cases
I—Complete remission	3
III—At home improved	1
V—Unimproved	1
Total	5

DEPRESSIONS OF VARIOUS TYPES

Group	Cases
I—Complete remission	0
III—At home improved	3
V—Unimproved	7
Total	10

PSYCHONEUROSES

Group	Cases
I—Complete remission	2
III—At home improved	3
V—Unimproved	5
Total	10

One case of psychopathic state was treated without improvement. We have found that the mental symptoms are occasionally aggravated by

this treatment. This happened particularly in a case of mania. Of the four complete remissions in schizophrenia two were stupor reactions. Three of the five cases of paranoid reaction showed complete remissions. We have found that cases of psychoneurosis—anxiety states, hysteria, and obsessive states—which did not respond to prolonged psychotherapy yielded fairly good results with convulsant drugs.

COMPARISON OF RESULTS IN SCHIZOPHRENIA

The above-mentioned results of the three methods of treatment of schizophrenia are compared in the accompanying table.

Group	Ordinary treatment	Hypoglycæmia	Convulsant drugs
	Cases and per cent.		
I—Complete remission ..	15 (12)	6 (13)	4 (10)
II—Social remission ..	11 (8)	6 (13)	0 (0)
III—At home improved ..	12 (9)	5 (10)	13 (32)
IV—Remitted and relapsed	27 (21)	0 (0)	0 (0)
V—Unimproved	64 (50)	31 (64)	24 (58)
Total	129	48	41

CONCLUSIONS

(1) There is no significant difference in the numerical results obtained in schizophrenia by ordinary hospital treatment, hypoglycæmic treatment, and convulsant treatment. 218 cases are considered.

(2) Spontaneous remissions occur most often in acute schizophrenic illnesses which cannot be fitted into the standard subgroups, and in cases in which the affect is well preserved and there is little or no disharmony between mood and thought.

(3) Hypoglycæmia gives the best results in the paranoid subgroup and in cases in which the affect is well preserved. There are no complications of importance.

(4) Convulsion therapy appears to be best suited for stupor reactions. It is also useful in cases of psychoneurosis resistant to psychotherapy. The disadvantages of the treatment are that about half the patients object to it and that injuries can occur. Occasionally cases are made worse mentally.

(5) We believe that the field of the special treatments is very limited, but that each should be used in the special types of case indicated above. They afford the best chance of recovery to a potentially recoverable patient whose illness is dragging on. They reduce the average duration of hospital treatment.

We thank Prof. D. K. Henderson for his advice and for his constant interest in this work.

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Corrigendum.—On page 373 of our last issue the Hunterian Orator alluded to the lymphatic work of "the late Prof. Jamieson of Leeds." Few readers will, we hope, need to be reminded that Prof. Jamieson now holds the chair of human anatomy and embryology at Trinity College, Dublin.

CARDIAZOL THERAPY OF SCHIZOPHRENIA

SOME STATISTICAL DATA

BY FRANCIS REITMANN, M.D. Budapest

(*From the Maudsley Hospital, London*)

THE following report on the results of Cardiazol therapy in schizophrenia is based on the therapeutic results of American and European authors, some of them already published and others privately communicated to Dr. L. von Meduna. The various authors classify their published cases so differently that it is very difficult to use them as a homogeneous group in which the therapeutic results can be calculated. Some of the authors, for example, report the number of acute, subacute, and chronic cases treated, but do not say what the therapeutic results in the separate groups (acute, subacute, and chronic) have been. Other authors, again, report only percentages. The classification of the remissions is rather loose—e.g., the very relative notion of

TABLE I—RESULTS OF CARDIAZOL THERAPY IN SCHIZOPHRENIA

No.	Hospital	Cases		Full remissions (number and per cent.)
		Total	Acute and subacute	
1	Buffalo City Hospital ..	58	31	19 (61)
2	Chicago State Hospital ..	208	127	95 (74)
3	Columbus State Hospital..	30	12	5 (42)
4	Elgin State Hospital ..	156	27	16 (59)
5	Galveston State Hospital..	22	7	4 (57)
6	Illinois Psych. Institute ..	69	41	16 (39)
7	Longview Hosp. (Cincinn.)	55	14	4 (29)
8	Peoria State Hospital ..	32	8	4 (50)
9	Philadelphia General Hosp.	52	29	2 (7)
10	Torrance State Hospital ..	41	11	3 (27)
11	Young Hospital (Omaha)..	13	6	6 (100)
12	Ypsilanti State Hospital ..	32	10	3 (30)
13	Westport Sanatorium ..	17	11	6 (54)
14	Lipótmező and Angyalföld, Budapest	230	74	48 (65)
15	Lipótmező, Budapest ..	106	58	24 (41)
16	Lipótmező, Budapest ..	24	15	11 (70)
17	Egy. Klinika, Szeged ..	73	31	11 (36)
18	Bexley Hospital, Kent ..	27	13	9 (69)
19	Brentwood Hospital, Essex	44	18	4 (22)
20	Burghölzli, Zürich ..	50	17	5 (29)
21	Waldau, Bern	112	34	17 (50)
22	Am Feldhof, Graz ..	100	51	23 (45)
23	Univ. Klinik, Vienna ..	30	13	9 (69)
24	22 hospitals in Germany ..	262	96	36 (38)
25	Univ. Klinik, Frankfurt ..	18	12	7 (58)
26	Univ. Klinik, Kiel.. ..	30	21	8 (38)
27	Palermo (Italy)	120	53	42 (79)
	Total	2011	840	437 (52)

Standard deviation from the mean = 3·8 per cent.

"social remission" or "very good improvement" is used. Other sources of divergence in assessing the results—e.g., lack of psychotherapy, differences

TABLE II—RESULTS OF CARDIAZOL THERAPY IN DIFFERENT COUNTRIES

Country	Cases		Full remissions (number and per cent.)
	Total	Acute and subacute	
Austria	130	64	32 (50)
England	71	31	13 (41)
Germany	310	129	51 (39)
Hungary	433	178	94 (53)
Italy	120	53	42 (79)
Switzerland	162	51	22 (43)
U.S.A.	785	334	183 (54)
Total	2011	840	437 (52)

in method, and number of shocks given—have been emphasised by von Meduna several times.

In the present report, to have approximately homogeneous groups, all cases with less than eighteen months' illness have been classified in one group (acute and subacute). Of the remissions only full remissions have been noted, as assessed at the time of discharge. With this standard the complete remissions are 52 per cent., with a standard deviation from the mean of 3·8 per cent. (see table I). The standard deviation would have been lower had it not been for the results given by the Philadelphia General Hospital (table I, No. 9), which showed a remarkably poor recovery-rate. When the data are grouped according to countries (table II), there is considerable agreement, except with the Italian figures. The percentage of full remissions given in tables I and II refers only to the acute and subacute cases. The chronic cases are left out because various authors include cases of 1½–10 years' duration. It is well known how hopeless are cases of more than 6 or 7 years' duration; arrest of the progress of the illness is all that can be expected, and the resulting

TABLE III—MALZBERG'S RECOVERY-RATE FOR SCHIZOPHRENICS TREATED WITH INSULIN

Total duration of psychosis before treatment	Cases	Recovered (number and per cent.)
1 month	7	3 (42·9)
3 months	99	33 (33·9)
6 months	92	19 (20·7)
6 months–1 year	119	19 (16·0)
1 year–2 years	368	45 (12·2)

defect is difficult to judge in its quality and not of great practical importance.

The recovery-rate (52 per cent.) closely agrees with that quoted in Thomas and Wilson's (1938) report (53 per cent.). It also confirms the results of von Meduna reported at the Amsterdam congress: "In the . . . so-called new cases, with an illness of not more than eighteen months' duration, the number of complete remissions is 53 per cent." Although von Meduna regards this figure as, if anything, an underestimate, it is high in comparison with Malzberg's (1938) recovery-rate for schizophrenics treated with insulin (table III).

In conclusion it should be stated that, even if the different authors have perhaps used the term "full remission" too generously, with the result that the strict recovery-rate would, in fact, be slightly lower than the figures here recorded, it would still be sufficiently high to justify cardiazol treatment.

I wish to express my thanks to my former chief, Dr. L. von Meduna, for providing me with some hitherto unpublished results and with the manuscript of his lecture in Amsterdam.

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BOECK'S SARCOIDOSIS

A CASE-RECORD

BY H. B. STALLARD, M.D. Camb., F.R.C.S.

ASSISTANT OPHTHALMIC SURGEON, ST. BARTHOLOMEW'S HOSPITAL, LONDON; OPHTHALMIC SURGEON, MOUNT VERNON HOSPITAL; LATE SURGEON AND PATHOLOGIST, ROYAL LONDON OPHTHALMIC HOSPITAL; AND

C. B. V. TAIT, M.B., B.S. Lond., D.O.M.S.

SENIOR CLINICAL AND REFRACTION ASSISTANT, ST. BARTHOLOMEW'S HOSPITAL; CONSULTING OPHTHALMIC SURGEON, SAVERNAKE HOSPITAL, MARLBOROUGH, AND HEATHERWOOD HOSPITAL (L.C.C.), ASCOT

(*From the Ophthalmic Department, St. Bartholomew's Hospital, London*)

THE terms lupus pernio, Besnier-Boeck's disease, Boeck's sarcoidosis, and Shaumann's benign lymphogranuloma are synonyms for a disorder of parts of the reticulo-endothelial system characterised by nodular lesions composed of a central mass of endothelial cells surrounded by a fringe of lymphocytes and, very rarely, a giant-cell of Langhans type. Caseation is never seen in these lesions, tubercle bacilli are not evident in specially stained sections, and inoculation of material from these nodules into a guinea-pig gives a negative result.

Some authors have suggested that this disease and uveoparotitis are a tuberculous or so-called paratuberculous manifestation, but there seems to be no definite clinical or experimental evidence to support this conception. Syphilis has also been blamed, but without good reason. However, the cause of this disease remains so far unknown. On histological grounds it appears to belong to a group of diseases of the reticulo-endothelial system in which may be included uveoparotitis (Heerfordt), lymphadenoma (Hodgkin), and certain other allied disorders. Uveoparotitis and Boeck's sarcoidosis run a chronic benign course but terminate, except for the ocular sequelæ in some cases, in complete recovery after a number of years, whereas lymphadenoma is malignant and fatal.

The lesions of Boeck's sarcoidosis are found in the lymph-nodes, spleen, skin, lungs, parotid and lacrimal glands, bones of the fingers, the conjunctiva, cornea, the uveal tract, and more rarely in the optic nerve, chiasma, breasts, testicles, upper air-passages, and hypophysis. All these tissues may not be affected during the course of the disease, which manifests itself in some only. Healing may occur in one group of structures and on remission the disease appear in another. Lymphadenopathy is evident in all cases at some stage and may be generalised or affect only one group of lymph-nodes, which become

enlarged, discrete, mobile, painless, and insensitive. Splenomegaly is also apparent in a number of cases. The skin lesions are bizarre. For descriptive purposes they may be grouped as follows:—

(1) *Miliary lupoid.*—(*a*) Small reddish-brown hemispherical papules and nodules, the size of a corn seed, soft, and with a smooth surface, which shows light desquamation and hyperkeratosis in some cases. These may become flattened, spread out, depressed in the centre, and ultimately cicatrised atrophic plaques. (*b*) The nodular variety is rarer, and the lesions are larger than those just described, some being 5 cm. in diameter during the stage of eruption. They affect first the cheeks and are also found on the nose, shoulders, extensor aspects of the upper extremities, and the knees. They are smooth, slightly elevated, and bluish red. The florid stage may last twenty years and the lesions become violaceous and have a telangiectatic surface. During involution the centres become flattened and depressed, the margins telangiectatic and pigmented, and the spots annular.

(2) *Lupus pernio.*—The skin of the cheeks, nose, and sometimes the lobes of the ears and the skin of the fingers over an associated osseous lesion is diffusely infiltrated, with a sharp border and a burnished surface.

(3) *Angio-lupoid.*—Soft infiltrated violet-red plaques showing many telangiectases are found on the side of the root of the nose in middle-aged females.

(4) *Erythrodermie sarcoidique.*—Large superficial serpiginous red areas affect the front of the legs and thighs.

The lung fields on X-ray examination show diffuse mottling resembling miliary tuberculosis but coarser and less regularly disposed. The mediastinal and hilar lymph-nodes are enlarged, and in some cases there are basal crepitations and cough. There may be enlargement of the lacrimal and parotid glands, the latter being associated with facial palsy. The phalanges of the hands and feet show in some instances painful fusiform swellings, which radiographically appear as a lace-like network with small areas of rarefaction surrounded by a zone of increased density. These osseous lesions may lead to mutilation or heal with some deformity of the nail when the terminal phalanx is affected.

The ocular manifestations associated with Boeck's sarcoidosis are not common. Blegvad (1931) states that iridocyclitis occurs in 10 per cent. of the cases,

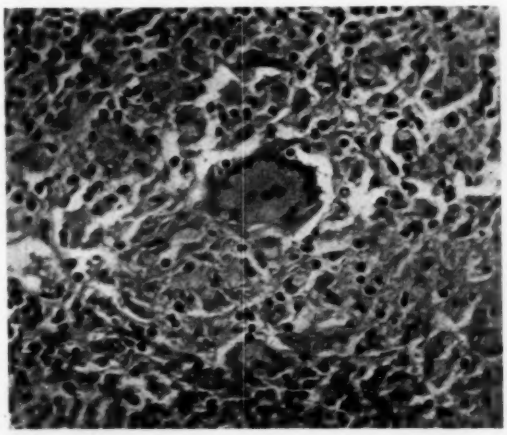

FIG. 1—Photomicrograph (× 290) of tissue from right breast, showing giant-cell surrounded by endothelioid cells and a fringe of lymphocytes.

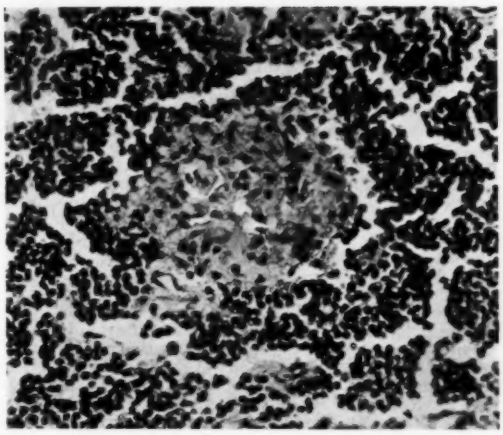

FIG. 2—Photomicrograph (× 290) of tissue from a cervical lymph-node, showing a mass of endothelioid cells surrounded by lymphocytes.

but it seems that the incidence may be less than this, between 5 and 10 per cent. Blegvad (1931), Schoeppe (1920), Seefelder (1932), and Coppez and Dujardin (1938) have noted multiple translucent yellowish projecting follicles in the palpebral conjunctiva and upper fornix, some of which formed a conglomerated mass resembling a fungating meibomian granuloma. Stumpke (1913) has seen keratitis, consisting of small, superficial, corneal opacities, associated with the cutaneous lesions of Boeck's sarcoidosis, and this complication occurred in the case reported here. Iritis, iridocyclitis, and uveitis have been noted by a number of authors, and Bering (1910) and Coppez and Dujardin (1938) have reported greyish nodules in the iris. These bear some resemblance to tuberculous iritis; they are more frequently disposed at or near the periphery of the iris and more rarely near the pupil margin. They may disappear and reappear with remissions of the disease. The iritis is relatively painless. Some of the cases of iridocyclitis recover and have a reasonable degree of vision, but others end in atrophy of the globe; this disastrous sequel has been recorded by Habermann (1927), Schoeppe (1920), Mylius (1928), and Fraenkel (1922) and occurred in our patient.

Reis and Rothfeld (1931) have described the case of a girl, aged 17, who suffered from Boeck's sarcoidosis and had bilateral papillœdema and subsequent optic atrophy. Necropsy revealed well-defined follicular infiltration of the left optic nerve, left papilla, and chiasma with endothelioid cells which extended to the cerebral peduncle and left temporal lobe. There were no areas of caseation, no necrosis, and no giant-cells. Meningeal symptoms and signs and right hemicrania were present in a patient whose case is reported by Coppez and Dujardin (1938). These authors comment also on the slow course of Boeck's sarcoidosis and the exacerbation of symptoms at the menses. Anæmia is mild or absent, a moderate mononucleosis and eosinophilia and an increase of plasma globulin being present in some cases. In our case there were lesions in the breasts.

CASE-RECORD

The patient was a woman aged 44. In August, 1932, when aged 38, she noticed a painless lump in her right breast, situated in the 10 o'clock meridian

and 3 in. from the nipple. It was ovoid, 1½ by 2 in., well defined, hard and mobile in the breast, and had a smooth surface, and the underlying skin was normal. There was some enlargement of the axillary lymph-nodes on the same side. In the left anterior and posterior triangles of the neck there were many discrete enlarged cervical lymph-nodes, both superficial and deep, which were elastic and mobile. These had no deep fixation, and the overlying skin was normal. The enlarged nodes were said to have been present since the age of 14 and to have changed little in size. On Oct. 3, 1932, the growth in the breast and a lymph-node in the left posterior triangle of the neck were excised. Histological examination of these revealed the structure of sarcoid tissue (fig. 1).

In 1933 she was under treatment at the Royal London Ophthalmic Hospital (Moorfields) for iridocyclitis of both eyes. On Sept. 4, 1934, she attended the ophthalmic department at St. Bartholomew's Hospital; complicated cataract, lowered intra-ocular pressure, and chronic uveitis were noted. On Oct. 4, 1934, an excess of fluid was noted in both knee-joints. She was readmitted to St. Bartholomew's Hospital on Feb. 8, 1935, because of enlarged nodes in the left side of the neck, swelling in the left parotid gland, and left facial paresis. Some lymph-glands were removed from the left side of the neck and showed the characteristic features of sarcoidosis (fig. 2).

The vision at this time was found to be reduced to perception of light only, owing to bilateral iridocyclitis and complicated cataract. The iridocyclitis was plastic, with posterior synechiæ. Right iris bombé was present and the intra-ocular pressure on both sides was raised. There were no definite nodules on the iris. For the relief of the secondary glaucoma left iridectomy was performed by one of us (C. B. V. T.), but the coloboma gradually became occluded by fresh exudate.

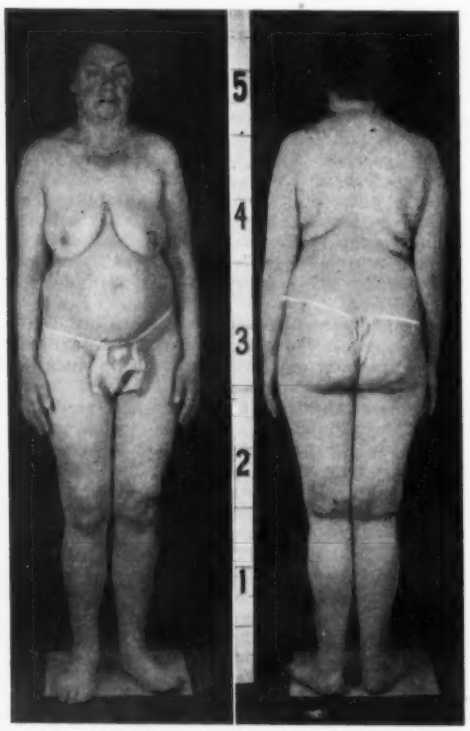

FIG. 3—General development and myxœdematous appearance of a woman, aged 44, with Boeck's sarcoidosis.

Investigations carried out at this time yielded negative results for the accessory nasal air sinuses, and the Wassermann and sigma reactions and clinical examination of the chest gave no positive signs. Radiograms of the chest suggested healed sarcoidosis lesions in the right lung.

On Jan. 30, 1936, at the age of 42, the left eye was soft and atrophic. There was keratitis in the right eye with ring staining and vascularisation of the cornea. The patient now had the classical features of myxœdema and bilateral cervical and axillary lymphadenopathy.

Present condition.—Fig. 3 illustrates her general development and myxœdematous appearance. She has a high colour, a brownish skin with multiple melanomata, clinically benign, of various sizes, scattered over dorsal, lumbar, and pectoral regions, the left anterior axillary fold, the left antecubital fossa and forearm, and the abdominal wall. In the right hypochondrium there is a brownish-purple vascularised cutaneous lesion, which is thought to be a miliary sarcoid.

In the right eye the cornea has vascularised opacities, the anterior chamber is of average depth, the iris is bound down to the lens capsule, and the iridectomy coloboma is occluded with fibrous tissue. The lens is densely opaque from complicated cataract, the intra-ocular pressure subnormal, and projection of light inaccurate. Vision is reduced to perception of light. The left eye is shrunken and atrophic, and there is no perception of light.

In the left posterior triangle of the neck there are three oblique scars of incisions made for the removal of enlarged cervical lymph-nodes. There is a mass of enlarged lymph-nodes in the left supraclavicular space. These are mobile under the skin and over the deep tissues. They are smooth and are firm and elastic. The overlying skin is normal. In the upper and outer quadrant of the left breast there is a craggy ill-defined mass of tissue about 3 by 2 in., which is not tender to touch. The liver and spleen are not enlarged. Some tapering of the index finger and thumb of each hand is evident, but the overlying skin is normal and there is no radiographic evidence of osseous disease. A blood-count gave the following results:

Red cells ..	.. 3,180,000	Polymorphs ..	.. 50%
White cells	.. 3200	"Band" forms	.. 16%
Hæmoglobin	.. 92%	Lymphocytes	.. 20%
		Monocytes ..	.. 4%
		Eosinophils ..	.. 1%
		"Squashed" forms ..	9%

SUMMARY

A case of Boeck's sarcoidosis with lesions in the cervical lymph-nodes, breasts, skin, and eyes is described. The eyes were affected by keratitis, uveitis, complicated cataract, and secondary glaucoma ultimately ending in phthisis bulbi. Myxœdema became added to the clinical picture.

We express our thanks to Dr. R. Bodley Scott for his advice about this case.

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ATMOSPHERIC AND SURFACE STERILISATION BY AEROSOLS

By R. J. V. Pulvertaft, M.D.Camb., F.R.C.P.

G. C. Lemon, F.Ph. Soc.

and

J. W. Walker

(*From the John Burford Carlill Laboratories, Westminster Hospital School of Medicine*)

Lister introduced the carbolic spray into the operating-theatre in 1871. After many years of controversy he abandoned it in 1887, not because he came to the view that air-borne bacteria were unimportant but because he felt that his methods were inadequate. In this he was justified; a concentration of phenol capable of sterilising air is quite intolerable to human beings.

Air-conditioning, and to some extent air-filtration, represented in modern theatres the last heritage of Listerian technique until recently, when Hart (1938) introduced "bactericidal radiation" into thoracic surgery and believed that thereby he had lowered his level of operative sepsis. The cocci of air, he believes, are the cocci of wounds; and many surgeons are of opinion that there is a risk of air-borne infection in prolonged operations such as those on the thorax and cranial cavity.

Although the surgeon was the first to appreciate the risk of air-borne infection, other branches of medicine have concerned themselves more intimately with the problem. Scarlet fever streptococci have been isolated from the air of fever wards (Brown and Allison 1937); droplet infection is considered to be the main vehicle in respiratory infections generally, in some virus disorders, and in meningococcal meningitis; tubercle bacilli have been isolated from the air of sanatoria. The nursing of premature and marantic infants is often complicated by bronchopneumonia, and the causative organisms are probably derived from the respiratory tract of attendants. Many research workers are inconvenienced by air bacteria. Tissue culture and all cultural methods which involve the use of non-autoclaved material would be much facilitated if work could be done in a sterile atmosphere. In many industrial processes, too, stray contamination from the air is a serious problem.

The public is perhaps a little more disturbed about air-borne infection than the medical profession. Some attempt is often made to sterilise the air of cinemas and theatres by the use of small quantities of scented sprays. Useless as this method is, it must be admitted that at any rate in times of epidemic respiratory disorder daily sterilisation of the air of places of amusement or public congress would be valuable.

The methods of air-sterilisation in common use are, firstly, antiseptic vapours. It is possible to obtain a sufficient concentration of a volatile antiseptic to kill bacteria in air. Formalin is most often used for this purpose and is effective; so also is phenol vapour, if the phenol is volatilised at a high temperature. Antiseptics so employed are either in a state of molecular dispersion in the air or as in the case of phenol exist as small suspended particles. In both cases a concentration in air is required which no human being could tolerate even for a few seconds, and some considerable time, probably an hour, is necessary for effective sterilisation. A second method is by means of ultraviolet light. This is only effective in the area radiated, but the method lacks the objections of the first. A third method, that of steaming the room, is sometimes used by bacteriologists, but in our experience is devoid of any effect.

If it is agreed that air-sterilisation is an objective worth pursuing, the requisites for an entirely unobjectionable method may be listed.

(1) The method must be effective against all bacteria, particularly those affecting the respiratory tract.

(2) The whole of the air of the room to be sterilised must be simultaneously treated.

(3) The time taken to sterilise must be short.

(4) The method should not render the room uninhabitable during sterilisation or afterwards; in other words, it must not in any way affect living human tissues.

(5) The method should not affect the efficacy of culture media and the like.

(6) The apparatus should be portable and the reagents inexpensive.

PROPERTIES OF AEROSOLS

The introduction by Trillat (1938) of the conception of "aerosols" for the purpose of air-sterilisation opens up a new field of bactericidal agents. We have tested the claims he makes for his method, and can fully confirm his findings. We consider that this method has already gone a long way towards satisfying the ideal specifications listed above, and that further modifications are likely to make it entirely satisfactory.

The word "aerosol" is not a precise term, but it has a value as indicating the analogy between small

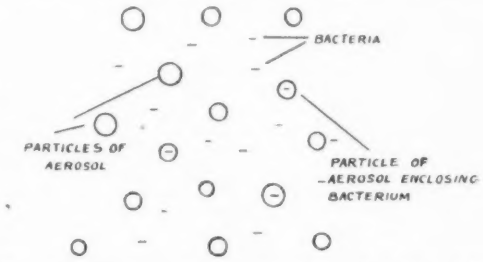

Fig. 1—Diagrammatic representation of a bactericidal aerosol in contact with air-borne bacteria. The particles are actually separated by spaces of 100–200 diameters.

particles suspended in air and colloidal solutions. The method consists essentially of extremely fine atomisation of bactericidal solutions, and this can be carried out by an apparatus known as the "Phantomyst." An electrically operated scent spray forces a jet of atomised fluid against the blades of a fan, which in its rapid rotation still further breaks up the droplets. The emerging mist is forced against a series of baffle plates and the final product is of extreme tenuity. If water is nebulised the resulting mist will not wet glass; if paraffin is nebulised it will not ignite. The mist is highly persistent: in an unventilated room definite traces remain in suspension after 48 hr. Since many factors determine particle size no definite figure can be given, but the order of their size is 5 μ (fig. 1).

Such a mist has interesting physical properties. First and foremost is the large surface area of a small total concentration of antiseptic solution. We find that 10 c.cm. of a certain antiseptic will sterilise a room of 2000 cu. ft. capacity. In this there will be 150,000 million particles of antiseptic solution, having a surface area of 118,500 sq. cm. The ultimate size

of the particle depends upon a number of factors. The humidity of the room affects the particle size if the solvent is water; if a volatile solvent such as alcohol is used particle size is much smaller. If a hygroscopic fluid such as glycerin is incorporated atmospheric humidity will not be of such importance, and particle size may be altered by varying glycerin concentration. Again, the incorporation in an alcoholic solution of a non-volatile solvent such as benzyl alcohol or xylenol-A serves to modify the final particle size (fig. 2). Surface tension is obviously an important feature, and this may be modified at will by surface-tension reducers such as sulphonated oleic acid or sodium lauryl sulphate (fig. 3). The nature of the surface is again modified by the presence in the solution of oils, which form monomolecular surface films, or soaps, which in the presence of traces of calcium may form surface films of insoluble soaps. These last two factors render the aerosol ineffective (fig. 4).

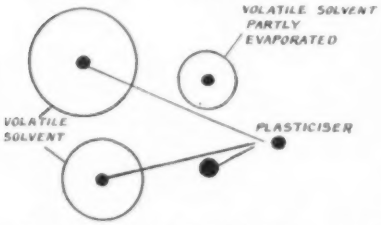

FIG. 2—Effect of a plasticiser—i.e., a small proportion of non-volatile liquid in aerosol mainly composed of volatile liquid such as benzyl alcohol or xylenol-A in ethyl alcohol.

There are obviously many factors limiting the use of antiseptics in this method. However, the important fact emerges that by this method any soluble antiseptic may be kept in suspension in air. This extends the field of air-sterilising agents beyond the volatile antiseptics. It must also be stressed that each particle in the mist or aerosol has an initial concentration of antiseptic comparable to that of the antiseptic solution nebulised. When a room is filled with such a mist a lattice-work of antiseptic particles permeates the atmosphere. Each particle has a bactericidal concentration, and whether it is effective or not depends upon the nature of the surface of the particle and whether the particle does or does not make contact with the bacillus.

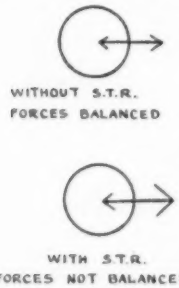

FIG. 3—Diagrammatic representation of the effect of a surface-tension reducer on an aerosol particle.

In our view the mechanism of aerosol sterilisation is of this kind, and the clearest distinction must be made between the effects of volatile antiseptics and of aerosols. A volatile antiseptic must have a concentration in air of the same order as that effective in aqueous solution, but we have found that chloramine-T is effective as an aerosol in an atmospheric concentration of 1 in 12 million. Trillat suggests that the efficacy of aerosols is due to the fact that bacteria in air are themselves in a highly vulnerable condition, so that minute traces of antiseptic are effective. Total atmospheric concentration is not in question; the important factors are the antiseptic concentrations in each aerial particle and the nature of the surface of the particle (fig. 1).

The total atmospheric concentration of antiseptic becomes important, however, when we consider its effect on the human being and on culture media. Among the antiseptics which we have found of value are resorcinol and chloramine-T, and at the necessary concentrations these do not affect the respiratory tract or inhibit growth when plates are exposed to them. On the other hand, up to the present we have not succeeded in finding an effective aerosol devoid of visible mist and wholly devoid of smell. It is possible to obtain an effective aerosol which is invisible. Para-chlor-meta-xylenol in 50 per cent. water, 45 per cent. ethyl alcohol and 5 per cent. xylenol-A forms an aerosol of this kind, but it has an offensive odour. The other effective aerosols have a visible mist and a slight odour. We have worked in such mists daily for eight months, and have kept mice in them, without any deleterious effects, or indeed any observable effects at all. For many purposes the psychological effects of the mist and the slight odour (which is only experienced on first entering the room) may deter workers unnecessarily. It is more than probable that further research will elaborate an invisible and odourless mist, since the number of known antiseptics is legion.

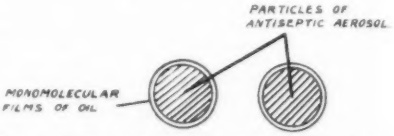

FIG. 4—Effect of addition of small quantity of oil to the antiseptic solution before nebulisation.

TECHNIQUE

In the majority of our experiments, numbering in all over a hundred, *Bacillus prodigiosus* has been used as test organism. A suspension in water is sprayed into a living-room through a throat-spray, so that approximately 500,000 million organisms are suspended in the air. It is obvious that bacterial concentrations vastly in excess of any likely to occur under practical conditions have been used. All the experiments with this organism have been carried out in living-rooms, and controls have invariably been performed in rooms of similar cubic capacity—as a rule 2000 cu. ft. *Staphylococcus albus* has also been used in living-rooms, but the pathogenic bacteria have been used in a special small chamber. Thus our experiments have been strictly quantitative with regard to antiseptic concentration only with *B. prodigiosus* and *Staph. albus*. In the other cases such minute amounts of antiseptic are necessary that figures are unreliable.

The selected antiseptic is then nebulised and allowed to operate for variable times. For one antiseptic 10 min. was found to be entirely effective; in this time 10 c.cm. of antiseptic solution is used. Shorter periods certainly lower the number of colonies grown but are not entirely effective.[1] The mist is allowed to operate for 15 min. after the nebulisation has ceased and plates are then exposed on the floor. Again, shorter periods have marked a definite effect but do not achieve full sterilisation The plates are then incubated for 48 hr. and the colonies are counted.

It may be objected that this method does not count the bacteria in the air but only those that fall, and that the mist might only maintain the organisms

1. Recent experiments indicate that 2·5 c.cm. of the resorcinol solution will sterilise 2000 cu. ft. of air.

in suspension. We have attempted to count the bacteria by sucking the air through powdered sugar and counting the colonies in cultures after dissolving the sugar in water. By this means it was found that no colonies grew in the test rooms; on the other hand, very few colonies grew in the control rooms. In former experiments on the bacterial content of air near refuse dumps we were led to doubt the efficacy of this method, which other authors have also criticised. The only other method is with the air-centrifuge, which we do not possess, and which has also been criticised. Most authorities have recently used the open plate method in their experiments.

That the bacteria are killed and not kept in suspension is probable for the following reasons:

(1) Plates exposed for 24 hr. fail to grow any organisms. By this time the mist has very appreciably diminished.

(2) Aerosols which are effective are rare. Pure water aerosols are useless, but 5 per cent. aqueous chloramine is effective. The addition of chloramine is not likely to keep bacteria in suspension. Similarly, glycerin by itself is ineffective whereas glycerin and resorcinol is effective. Here the same argument applies.

It may also be objected that the aerosol may condense on the culture plates thereby inhibiting growth, but as has been stated earlier, plates exposed to the aerosols at their exit from the phantomyst for periods of 10 min. or longer and then exposed to bacteria in control rooms show no inhibition of growth. Moreover, plate cultures exposed to the aerosol can be readily subcultured.

RESULTS

Water, glycerol, alcohol, acetone, 10 per cent. Soluseptasine, lysol, Monsol, Dettol, and the sodium salt of ortho-phenyl-phenol are more or less ineffective. The makers of the phantomyst market a solution known as Aeryl which is completely effective against all the organisms we have used—namely, *B. prodigiosus*, *Staph. albus*, *Streptococcus hæmolyticus*, pneumococcus, and *Corynebacterium diphtheriæ*. Trillat states that it is effective against the influenza virus and many other organisms. The formula of this solution as stated by the makers is a supersaturated aqueous solution of resorcinol with glycerin. We have also found that 5 per cent. chloramine-T, made up according to a formula given below, is effective. Both these aerosols have a slight odour which is perceptible on entering the room and a persistent mist. They have proved quite innocuous in use over a period of months.

A solution of 0·5 per cent. parachlor-meta xylenol in 50 per cent. water, and 45 per cent. ethyl alcohol and 5 per cent. xylenol-A, with 0·1 per cent. sodium lauryl sulphate, is effective, but the aerosol is most offensive. When benzyl alcohol is used instead of xylenol-A the aerosol is inoffensive but also ineffective.

The Rideal-Walker coefficient of "aeryl" is 0·1 and that of the chloramine-T solution (described below) 0·02. At a dilution of 1 in 6 aeryl kills *B. prodigiosus* in 5 min.; at dilutions of 1 in 60 and over it is quite without effect.[2] Therefore a concentration of these antiseptics 100,000 times smaller than that necessary in aqueous solutions is 100 per cent. effective.

STERILISATION OF SURFACES

An attempt has been made to make use of the properties of an aerosol for the purpose of the sterilisation of surfaces. The problem was first presented in a practical form for the disinfection of civilian gas masks after use when there was a probability that infective material had been left after expired droplets had dried. With this purpose in mind a series of experiments was devised in which pieces of rubber fabric, such as were used in the construction of the masks, were used for test surfaces. A special chamber was constructed for the purpose of the tests and all experiments on surface sterilisation were carried out therein. It consisted of a galvanised iron box containing two compartments. The larger of these was the actual test chamber and was about 90 litres in capacity. It was fitted with an airtight door containing a glass window. The second chamber was just large enough to contain an apparatus capable of converting 1 c.cm. of liquid into aerosol in 1 min. The aerosol was led directly into the top of the test chamber by means of a pipe and was redrawn into the smaller chamber through two small holes at the bottom of the partition. This arrangement ensured an even distribution of aerosol throughout the test chamber.

The general technique of the experiments was as follows:—

A number of test surfaces (pieces of rubber fabric about 3 cm. by 2 cm.) were infected with a saline suspension of the test organism and were allowed to dry at a temperature of 37° C. At the beginning of the experiment one of these was pressed on to a plate of appropriate medium and another was placed in a sterile dish and treated similarly at the end of the experiment. This latter procedure was to ensure that the organism, when in the dry state, was not destroyed by the time interval alone. The remaining test surfaces were placed in the test chamber and the airtight door closed. The nebuliser was operated until the required concentration of aerosol within the chamber was reached. The test surfaces were removed from the chamber at desired intervals, and after any moisture had been allowed to evaporate under sterile conditions (which took place very rapidly), the test surfaces were pressed on to plates of medium in the same way as the controls. Whenever the test chamber was opened for the purpose of removing a sample the nebuliser was operated for a period of 30 sec. in order to compensate for the resulting fall in the concentration of aerosol.

In the first instances such common disinfectants as formalin, lysol, Neomonsol, dettol, phenol solution and mercuric chloride solution were used for the production of aerosols. It was found however that in every case but that of formalin little bactericidal action could be obtained unless the concentration of the aerosol was raised until the dew-point was reached, at which stage the test surfaces became flooded with a heavy deposit of the disinfecting liquid—a condition tantamount to painting on the fluid by means of a swab. In the case of formalin very efficient bactericidal action was obtained with the aerosol but the method suffered from the disadvantage of the grossly irritant action of formalin aerosol which, in the case of its practical application to gas masks, rendered the method useless owing to their retaining the irritant property for a considerable time after disinfection.

An attempt was then made to evolve a new mixture the aerosol of which would have a similar bactericidal action to that of formalin without its highly irritant properties. A mixture was compounded of acetone, alcohol, water and hydrogen peroxide but this was found to have but little effect. It was, however, deemed possible that the addition of some substance which would reduce the surface tension of the liquid would possibly cause it to have some affinity for the infected surfaces, and in order to achieve this a small quantity (0·5 per cent.) of sulphonated oleic

2. The chloramine-T solution is ineffective in dilutions greater than 1 in 2.

acid was added to the mixture. The effect of this addition was remarkable. If a test surface was infected in patches, and these patches allowed to dry prior to the exposure of the surface to the aerosol, it was found that after a short period of such exposure these patches had again become moist while the remainder of the test surface remained dry. After being allowed to dry under sterile conditions such surfaces were pressed on to the surface of an appropriate medium and this was found to remain sterile. The optimum conditions for such sterilisation were found to be a concentration of 1 : 18,000 of aerosol (obtained by the operation of the nebuliser for 5 min. in which concentration the test surfaces were left for a period of 20 min.

This technique was found to be completely bactericidal to *B. prodigiosus*, staphylococci, streptococci and pneumococci. In the case of *C. diphtheriæ* however no satisfactory bactericidal action could be obtained. It was therefore necessary once again to modify the bactericidal mixture and to this end the hydrogen peroxide was replaced by chloramine-T (5 per cent.).

This new mixture, referred to as "G.M.2," was found to act efficiently under the conditions outlined above and was also found to be effective against *C. diphtheriæ*. In all, the following organisms were found to be destroyed by the aerosol of "G.M.2" when present on surfaces under the conditions described: *B. prodigiosus*, staphylococci, streptococci, pneumococci, *C. diphtheriæ*, *Vibrio choleræ*, *Pasteurella pestis*, *B. typhosus* and *B. coli*. It was not found possible to destroy spore-bearing organisms such as *B. subtilis* entirely, though as many as 50–70 per cent. of them were destroyed by this treatment.

The action of the aerosol of "G.M.2" was found to be efficiently bactericidal only when the infectious material had been allowed to dry. If the test surfaces were exposed to the action of the aerosol while the infectious material was still wet the results were never uniform, probably because of the introduction of a dilution factor. Controls similar to those carried out with the aerosol of aeryl were made of the action of the "G.M.2" aerosol on the surface of culture media. Agar plates were exposed to the action of the aerosol in the test chamber and were subsequently sprayed with a suspension of test organisms. Abundant growth of the organism was obtained. It is important in carrying out this control that the concentration of the aerosol is not raised so high that the dew-point is reached, otherwise the surface of the plate will be flooded with liquid "G.M.2," which will effectively render it non-nutrient. The control was elaborated further by suspending test surfaces in the aerosol until such time as the bacteria were deemed to be destroyed and then immersing these pieces of rubber in broth. In a high percentage of cases the broth was found to remain sterile.

A plate culture of *B. prodigiosus* exposed to the action of the aerosol of "G.M.2" was shown upon subculture to be unaffected. A mouse subjected to the aerosol for a period of 30 min. was not obviously affected nor were laboratory workers who remained in constant contact with the aerosol.

A minimum number of three experiments was carried out with all the organisms listed above but in certain cases the number was larger. This included 12 in the case of *B. prodigiosus*, 7 with staphylococci, 6 with streptococci and 8 with *C. diphtheriæ*.

Some of the experiments were repeated on other test surfaces, including glass, woollen cloth, metal, leather, wood (unvarnished) and paper. It was found that, even if the concentration of the aerosol is increased and the time of exposure lengthened, as soon as any degree of porosity in the test surface was reached the efficiency of the method declined steeply. The only bactericide which appeared to be effective under such circumstances was formalin. Such surfaces as glass and metal could be treated with as great efficiency as rubber.

SUGGESTED APPLICATIONS

(1) Air-sterilisation of *operation theatres, cinemas, public halls, restaurants* and so on. In all these cases the presence of a visible and odorous mist is likely to be to a greater or less degree a deterrent. In operation theatres its use during operations would only be objectionable in a psychological sense, but perhaps surgeons are not sufficiently impressed by the danger of air-borne infection to develop the method. A compromise would be to fill the rooms in question with the aerosol, leave them filled for a period of one hour, and then to ventilate them and remove the mist. This would at least ensure the intermittent sterilisation of the air, and might well be employed between "houses" at theatres. No residual smell remains when the mist is removed by ventilation.

(2) *Prevention of air-borne infections in dormitories.*—Epidemics of meningococcal meningitis and infantile paralysis are fortunately rare, but arise mainly in institutions when the inmates sleep in dormitories, and infection is believed to occur there. Less vital but of great importance are the other juvenile infections and influenza. It might well be of great value to maintain the mist in suspension in the air during the night under such epidemic conditions; but here again intermittent disinfection would be better than nothing.

(3) *Prevention of case-to-case infection in hospitals.*—In the event of serious epidemics of air-borne diseases, such as influenza at its worst, this method should have great value. Whether patients would learn to tolerate the mist and odour under less urgent conditions is a matter for experience. Similarly the nursing of premature infants in such mists might be advantageous; on the other hand they might prove more sensitive than adults to the aerosol.

(4) *Economic bacteriology.*—All industries dependent on bacteria, such as the butter, brewing and cheese industries, and all in which bacterial contamination from the air is a disadvantage, might well consider this method, since it is not liable to transmit any disadvantageous taste or odour.

(5) *Laboratory work.*—The sterilisation of the air in media rooms and vaccine rooms is an obvious application.

(6) Aerosols have also been adapted to the deodorisation of air and the killing of insects, including mosquitoes and bedbugs.

(7) Surface sterilisation is possible by aerosols within limits; non-absorbent surfaces are alone affected. Even so, particular problems are likely to present themselves where the method has a use. After the removal of all bedding and so on rooms might so be sterilised up to a point after infectious cases. The bacteria in large dust masses are unlikely to be affected.

Our thanks are due to the staff of the pharmacological department of Westminster Hospital; to Mr. H. Berry, Dean of the college of the Pharmaceutical Society, for many helpful suggestions; and to Andre (Components) Ltd., for the gift of the Phantomyst apparatus.

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HÆMATOMA OF THE FLEXOR TENDON SHEATHS OF THE HAND

FOLLOWING PENETRATING WOUNDS

By E. A. Devenish, M.S. Lond., F.R.C.S.

FIRST ASSISTANT IN THE SURGICAL UNIT, UNIVERSITY COLLEGE HOSPITAL, LONDON

Two cases seen at the whitlow clinic of University College Hospital presented a syndrome which I believe to be due to hæmorrhage into the flexor tendon sheaths of the hand. The condition, though rare, merits recognition, because it is likely to be mistaken for infective tenosynovitis, unlike which it has a good prognosis. I can find no previous account of it.

THE TWO CASES

Case 1.—A male machinist, aged 37, was admitted to hospital on April 18, 1936, complaining of severe throbbing pain, bad enough to keep him awake at night, in the left thumb and wrist. One blade of a pair of scissors had penetrated the outer side of his thumb near the distal flexor crease a day before admission. The wound had been dressed in casualty soon after its infliction.

On admission his temperature was 97·4° F. and pulse-rate 64. The fingers and thumb of his left hand were held semiflexed. The fingers could be passively extended, but not fully without pain at the wrist. The thumb was more resistant to extension; it was impossible to extend it fully and any attempt to do so caused severe pain. There was slight swelling of the thenar eminence with tenderness along the palmar aspect of the thumb and over the flexor tendons at the wrist. There was a small cut on the outer side of the thumb near the distal flexor crease. There were no other abnormal physical signs.

An unpadded plaster cast fixing the wrist and thumb was applied and the patient was put to bed with the limb elevated. Seven hours later he complained of numbness of the index finger. The plaster was removed and on examination there was slight bruising of the skin over the volar aspect of the wrist, complete anæsthesia of the left index finger to touch, pinprick, and sense of position, and impairment of sensation to touch and pinprick in the thumb and middle finger. The limb was placed in a sling without a splint, and was again elevated.

Next day the bruising was more obvious, but the pain was less severe and slight sensation was returning to the fingers and thumb. On the 20th the swelling and tenderness of the thenar eminence were less and the pain had vanished, but there was still slight tenderness over the volar aspect of the wrist. On the 21st the thenar eminence was no longer swollen but it was still slightly tender and the bruising was most obvious on the ulnar side of the wrist just proximal to the head of the ulna. Radiography of the hand and forearm failed to show any crack or fracture of the bones. The patient was discharged. During his three days in hospital his temperature and pulse-rate remained within normal limits.

He was seen again a week after the date of the injury, when he had the full use of his hand. Anæsthesia of the terminal phalanx of the index finger was still present, but sensation in the middle finger and thumb was normal. The bruising had practically disappeared and there was still slight tenderness of the palmar aspect of the thumb. Five days later—i.e., twelve days after the date of the injury—sensation in the index-finger had returned to normal and the patient was passed as fit.

It is possible that the incomplete median nerve lesion which this patient developed was due to the plaster splint preventing swelling as the splint encircled the forearm to the wrist. It is also possible, however, that the damage was produced by compression of the median nerve in the carpal tunnel, for such median nerve injury is rarely caused by a plaster cast even in cases of severe injury.

Case 2.—A male metal-reclaimer, aged 37, was first seen at University College Hospital on Aug. 17, 1938, when he complained of severe pain in the left hand, particularly in the thumb and little finger, and inability to use the hand. He had cut himself with a piece of glass five days before, receiving a penetrating wound on the palmar aspect of the thumb opposite the metacarpo-phalangeal joint. He went immediately to another hospital, where the wound was sutured. The day after the accident being Sunday he did not use the hand much, but he went to work on the next two days. His thumb became increasingly painful and by the fourth day after the accident the pain was severe enough to keep him awake at night.

On Aug. 17 his temperature and pulse-rate were normal. The fingers and thumb of his left hand were held semiflexed. Passive extension of the index, middle, and ring fingers caused pain at the wrist, but these fingers could be fully extended. Attempted extension of the thumb or little finger produced severe pain and full extension was impossible. There was a small cut on the palmar aspect of the base of the thumb just opposite the metacarpo-phalangeal joint, but there was no redness round the cut and no discharge from it. The left hand and forearm were placed in a sling and he was sent home.

On the 18th the thumb and thenar eminence, the little finger, and the volar aspect of the wrist were tender and slightly swollen. Attempted passive extension of the fingers and thumb was still painful. There was no bruising of the hand or wrist and no anæsthesia of any of the digits. On the 19th the swelling had disappeared and the only abnormality present was painful limitation of passive extension of the little finger and thumb. On the 24th the cut on his thumb was practically healed. There was slight greenish discoloration of the skin of the volar radial part of the forearm just above the wrist. There was no swelling, tenderness, or limitation of movement, active or passive, of the digits, and a radiogram of the hand and forearm showed no crack or fracture of the bones. The patient was discharged.

This patient was not admitted to hospital, the only treatment given being rest of the limb in a sling and analgesic drugs. His temperature and pulse-rate were never found raised and he was discharged fit twelve days after the receipt of the injury. The bruising in this case was much less marked than in case 1, but it is likely that this was because the hand was never elevated and the blood in the tendon sheaths only slowly diffused out.

DISCUSSION

The features of the syndrome in these two cases were: (*a*) pain, swelling, and loss of function in the distribution of the flexor tendon sheaths; (*b*) delayed bruising appearing where the sheaths are near the surface and dependent on posture; and (*c*) rapid recovery.

To establish the suggested explanation of hæmorrhage into the sheaths it must be shown first, that the site of the lesion was the flexor tendon sheaths; secondly, that there was blood in the tendon sheaths; and thirdly, that there was no acute infection of the tendon sheaths.

The arrangement of the flexor tendon sheaths of the hand is briefly as follows. The tendon sheath of the flexor pollicis longus extends from the base of the terminal phalanx of the thumb to a short

distance proximal to the transverse carpal ligament. The tendon sheaths of the index, middle, and ring fingers end in the palm at about the level of the metacarpal heads. The tendon sheath of the little finger extends into the wrist as the common flexor sheath which often communicates with the proximal end of the sheath of the flexor pollicis longus. Thus fluid entering the tendon sheath of the thumb may flow into the common flexor sheath and even down the flexor sheath of the little finger, according to the position in which the hand is kept. Further, owing to the depth at which the sheaths lie in the fingers and palm, the thickness of their walls in the fingers as compared with the relative thinness of the sheaths in the forearm, and their comparatively superficial position there, one would expect bruising to appear only in the forearm, and its appearance to be accelerated by elevating the hand.

That the site of the lesion was the thenar and common flexor sheaths is shown by the fact that the distribution of the pain, swelling, and tenderness and the limitation of function produced were identical with those found in acute suppurative lesions of these tendon sheaths. The pain and swelling of the little finger in case 2 are explicable only on the supposition that blood had trickled down its tendon sheath. This did not happen in case 1 probably because his hand was kept elevated for three days.

That there was a collection of blood in the tendon sheaths is shown by the presence of a wound capable of providing a source of the blood and of opening the tendon sheath, the appearance of bruising at the wrist or forearm—i.e., where one would expect to find it—and the absence of any other cause of the bruising—i.e., a fracture.

That there was no acute infection of the tendon sheaths is shown by the absence of a raised temperature or pulse-rate. The rapidity with which the patients recovered also suggests that infection had not occurred.

In both cases the mimicry of early acute suppurative tenosynovitis was close. The chief points of differentiation were the absence of a raised temperature and pulse-rate and the swelling of the affected parts of the hand and wrist was less than one would expect with acute suppurative tenosynovitis. However, some cases with an uninfected hæmatoma of the tendon sheaths may be expected to have a raised temperature and pulse-rate, for hæmatomas elsewhere may be accompanied by both. The appearance of bruising is too late to be of much use in making an early diagnosis, but its appearance may be accelerated by keeping the hand continuously elevated. In doubtful cases the patient should be admitted to hospital and the hand elevated; at the end of 24 hours the diagnosis should be obvious.

Treatment should consist of resting the limb in a sling and giving analgesic drugs for the pain. Splinting of the hand is unnecessary because the pain on attempted movement of the fingers will effectively keep them at rest.

SUMMARY

A syndrome has been observed after penetrating wounds of the hand consisting of: (*a*) pain, swelling, and loss of function in the distribution of the flexor tendon sheaths; (*b*) delayed bruising appearing where the sheaths are near the surface and dependent on posture; and (*c*) rapid recovery.

The syndrome is attributed to hæmorrhage into the flexor tendon sheaths.

INTRODUCTION OF AN IODISED OIL INTO THE TRACHEOBRONCHIAL TREE

By Philip Ellman, M.R.C.P.

PHYSICIAN TO THE ST. JOHN CLINIC AND INSTITUTE OF PHYSICAL MEDICINE, LONDON; CONSULTANT PHYSICIAN TO THE RHEUMATIC UNIT, ST. STEPHEN'S HOSPITAL (L.C.C.)

Bronchography is now regarded as essential in the diagnosis and treatment of certain chronic pulmonary diseases. Since it was first introduced by Sicard and Forestier in 1921 much has been learnt of the early stages of such diseases as bronchiectasis, pulmonary abscess and new growths, and it is extremely important that this procedure should be made available to general clinicians and not limited to specialists.

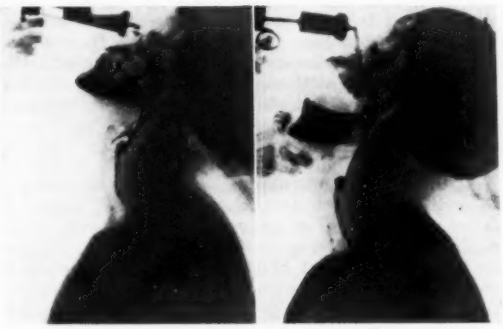
Various methods have been employed for the injection of the oily iodised solution—Lipiodol (Lafay) or Neo-hydriol (May and Baker)—into the bronchi (see Ellman 1932), but in my view they all have certain disadvantages from the point of view of simplicity. Direct injection by the cricothyroid route is an operation not altogether free from risk and not really suitable for out-patients. The oral route, whereby after preliminary anæsthetisation the oil is poured over the base of the tongue, often involves swallowing some of the oil. The intralaryngeal route requires skilful use of the laryngeal mirror and good anæsthesia of the laryngo-pharynx. The bronchoscopic route requires a trained bronchoscopist.

The obvious way of approaching the tracheobronchial tree is via the commencement of the respiratory tract—i.e., the nose. Franklin and Orley (1931) introduced a rational method of injecting the oil by a nasal catheter along the floor of the nose and into the larynx and trachea. This has the disadvantage of not infrequently inducing laryngeal spasm, and at the suggestion of my friend Dr. Forestier I have adopted, and somewhat modified, a method first introduced by him which I have found to be much simpler.

TECHNIQUE

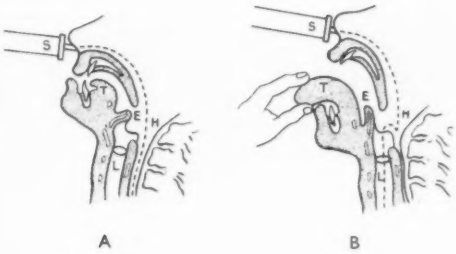
The iodised oil is injected directly into the nostril from an ordinary 20 c.cm. syringe, no nasal catheter being required. Preliminary anæsthesia of the nostril, pharynx, and larynx is usually advisable although I have obtained excellent bronchograms in coöperative patients without. When the tongue remains in its natural position in the mouth the hypopharynx is open and fluid can be readily swallowed (fig. 1). In this method the tongue is protruded and held firmly there by the operator or the patient, as in a laryngeal examination. The whole of the larynx, including the epiglottis, is thus elevated, thereby closing the hypopharynx and keeping the upper end of the œsophagus closed. In this way the normal act of deglutition is made impossible. A radiogram readily shows the oily solution dropping automatically into the small pouch of the hypopharynx and flowing over the brim into the larynx and trachea (fig. 2).

The requirements for this method are of the simplest. Sensitivity to cocaine and iodine is first tested. A few days previously a hypodermic injection of cocaine, gr. 1/10, is given and the pulse is taken at intervals of ten minutes for half an hour. If there is no appreciable increase in rate and no faintness there is usually no abnormal sensitivity to cocaine. A mixture



A B

FIG. 1—Radiograms taken with syringe in position. A, with tongue in mouth; B, with protruded tongue held.



A B

FIG. 2—Diagrams illustrating fig. 1. In A the oil injected into the floor of the nose is dropping down the open hypopharynx and into the œsophagus. In B the hypopharynx is closed and the oil is flowing into the larynx and trachea. (E=epiglottis; H=hypopharynx; L=larynx; S=syringe; T=tongue.)

containing pot. iod. gr. 5–10 is given daily for three days and if this is not followed by skin eruption or catarrh of the conjunctiva or nasal mucosa the patient may be assumed to react normally to iodine.

The instruments required are a De Vilbiss spray No. 15 and a 20 or 25 c.cm. syringe to which is attached a small nasal olive[1] which occupies the nasal orifice and prevents regurgitation of the oily solution. A few c.cm. of equal quantities of a 10 per cent. solution of cocaine hydrochloride and 1 in 1000 adrenaline are placed in the bottle of the De Vilbiss spray. The oily solution is usually warmed to body temperature though better pictures are often obtained without heating the oil. As a rule 20 c.cm. of the oil (10 c.cm. for each lung) is all that is needed, although as much as 20 c.cm. for each lung may sometimes be necessary. The quantity is easily regulated by screen examination, to which this method readily lends itself.

The patient sits in the upright position and is instructed to grasp the tongue firmly. This position is maintained throughout. The nostril with the freest airway is chosen and is sprayed several times with the cocaine-adrenaline solution. The back of the tongue and the pharynx and larynx are then similarly treated. After an interval of 5–10 minutes the warm oily solution is injected from the 20 c.cm. syringe. To fill the lower lobes the patient remains seated with the head thrown back and the body well tilted to the affected side. Tilting is especially necessary in the case of the left lung, since the right bronchus is in more direct line with the trachea. To inject the upper and middle lobes the patient lies on his back on the X-ray table—a tilting table is preferable though not essential—with the opposite shoulder well raised by one or more pillows, and is

1. The special syringe and nasal olive have been made for me by Messrs. Allen and Hanbury.

FIG. 3—Bronchogram showing blocked bronchus on right side characteristic of bronchial carcinoma, and normal bronchial tree on left side.

FIG. 4
Bronchogram showing saccular bronchiectasis of the left lower lobe.

tilted to the right or left according to the lung being treated.

For successful results the complete coöperation of the patient is essential and I find that a preliminary explanation of the whole procedure best secures this end. In a highly nervous patient a sedative such as heroin, gr. 1/8, might be given half to one hour before the injection. While the oily solution is being injected the protruded tongue must be firmly held to prevent deglutition, and the patient must be instructed not to cough until the photographs have been taken. During the whole of the operation the patient should be encouraged to breathe naturally and quietly. Before taking photographs I usually screen the patient to ensure that the area under observation is adequately filled. Photographs are usually taken with the patient erect in the antero-posterior and lateral positions, although it is sometimes necessary to take them also in the recumbent position.

I have now used this technique in some 50 cases with almost invariably good results (figs. 3 and 4). The whole procedure takes little more than 15–20 minutes; the apparatus required is simple and the technique is such that any practitioner, observing the precautions here outlined, can soon learn to obtain satisfactory bronchograms.

SUMMARY

A simplified technique is described for introducing an iodised oil into the tracheobronchial tree by direct nasal injection under local anæsthesia. The method causes the patient the minimum of discomfort. No special apparatus or skill is required and the method is suitable for the general clinician.

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MEDICAL SOCIETIES

ROYAL SOCIETY OF MEDICINE

SECTION OF RADIOLOGY

AT a meeting of this section on Feb. 17, Dr. H. K. GRAHAM-HODGSON, the president, being in the chair, a discussion on the

Radiology of Acute Respiratory Diseases

was opened by Dr. PETER KERLEY. He began by pointing out that for the radiological examination of these diseases a portable apparatus was generally essential and as the films were not infrequently taken in an emergency by laymen and passed on to radiologists to interpret, it was important to lay down practical rules for the technique of portable apparatus. He believed that there was nothing to be gained by making the work elaborate. The less fuss and bother there was in the room and less formidable the apparatus looked the better for a patient who was grievously ill. Fine detail was rarely required and speed was important if not vital. A working distance from two and a half to three feet was ample. He laid stress on careful screening and his usual procedure was to let the patient lie back against the screen in the sitting position. When the shadow of a consolidated base merged with that of the diaphragm or when the respiration-rate was too high or the patient too ill or too young to coöperate a screen examination might be decisive. For this work he believed the manufacturers had made a mistake in making portable sets too portable and thereby restricting screening facilities. With regard to films his advice was to take plenty and always to over-expose or over-penetrate two, since these would be the pictures on which fluid or consolidation might be differentiated. Again, the radiologist should never leave the room without taking a lateral view.

The best-recognised though not the commonest acute respiratory disease in childhood the speaker considered to be miliary tuberculosis. It was not possible radiologically to determine the method of spread, but the usual appearance in infants up to nine months or so in age was a fairly large caseating pneumonic area in one lung with widespread dissemination of fairly large round foci all over both lung fields; whereas in older children and in adults there was a widespread infiltration of millet seed or larger shadows but seldom a pneumonic area. He believed that only three of the recorded cases of recovery satisfied the essential diagnostic criteria. The pathological significance of difference in size of the individual lesions was not clearly established, but he did not believe that the finer and more discrete the lesions the better the outlook as had been stated by some authorities. With regard to pneumonia in children, broadly speaking infants tended to exhibit localisation to the paravertebral sulci and older children a more diffuse type of shadow. The dominant feature in infants was a dense homogeneous opacity with a well-defined outer border running parallel to the mediastinum and extending from apex to base, usually some two inches wide. The homogeneity of the shadow, the sharp outer border, and the distribution transgressed the lobar divisions of the lung, and indicated a mediastinal effusion which appeared to be a frequent complication of paravertebral pneumonia in young children. Between the ages of 2 and 10 two types of bronchopneumonia could be recognised. In one the foci were large and ill defined and might coalesce but did not extend into the root of the lung as in lobar consolidation; in the other the foci were sometimes referred to as a miliary bronchopneumonia and appeared to be common following measles. The X-ray appearances of bronchiolitis were not well known and in view of the probability of the congenital cystic nature of the condition the term bronchiolitis should be abandoned, as should bronchiolectasis. The complications of bronchopneumonia and lobar pneumonia in children were collapse and fluid. The former could be detected by the abnormally low position of the interlobar fissure, the opacity of the lobe and the displacement of the mediastinum to the diseased side. With fluid, it was not possible to determine by the radiogram whether the fluid was purulent or not; all one could do was localise the collection. In young children mediastinal effusions were frequent, whilst in older children the ordinary axillary type was commoner. Occasionally a lamellar effusion was seen with a very thin pleural line running up the outer border of the chest wall, and the amount of fluid might be larger than the X-ray appearance suggested. The picture of interlobar collections of fluid resembled that in adults. Empyemata occurred in odd situations and might be overlooked, and sometimes pseudo-cavities, due, the speaker suggested, to acute vesicular emphysema,

occurred both in lobar and bronchopneumonia in children. All these conditions were difficult even for a skilled radiologist to interpret and radiograms taken by a layman and interpreted by a general practitioner could lead to disastrous results. Ring shadows or pseudo-cavities in radiograms of lobar pneumonia had been described of recent years. They had been regarded by American writers as areas of aseptic or aputrid necrosis. Rabin regarded them as due to an arteritis with thrombosis and subsequent infarction in the centre of the pneumonic area. Dr. Kerley emphasised the fact that they were a purely radiological discovery and had never been confirmed post mortem. He suggested that they might be due to delayed resolution following collapse of a large segment or of a lobe. Emphysema was a natural reaction to collapse and there was no reason why over-distended lobules should not contain fluid levels.

Dealing with influenzal bronchopneumonias the speaker regretted that we had no reliable X-ray records of the last great pandemic of 1918–19. In more recent epidemics the radiological appearances suggested an area of intense hyperæmia with small pea-sized foci of consolidation not tending to coalesce. In the 1936–37 epidemic he saw some 40 cases and the left base was affected three times more often than the right. Recovery followed in all but one case. Postoperative chest complications for which the radiologist was consulted were generally collapse and infarction. Collapse showed a homogeneous opacity with a sharp edge, but in infarction there was no well-defined margin and clear vascular markings were very obvious, and in thrombosis the affected vessels did not change in different phases of respiration. The thickest part of the vessel lay at the apex of the infarct. Tomography he believed to be superior to all other methods of investigation in lung suppuration. Not only did it reveal the site of the abscess cavity but it showed the calibre and site of the drainage bronchi. In pulmonary hæmorrhage inhaled blood might be spattered into alveoli exactly like Lipiodol. In conclusion Dr. Kerley cited a small group of cases of lesions of the bony thorax simulating acute chest conditions. The paper was illustrated with a series of lantern slides.

Dr. F. G. CHANDLER followed with a short paper from the standpoint of the physician. He believed that the time had come when the great value of the portable X-ray plant in hospital and private practice could be fully demonstrated. Inflammatory areas, infarction, with their distribution, partial pneumothoraces, massive collapse, interlobar effusions, deep-seated abscesses, focal atelectasis and many other conditions could be brought to light by its use. And not least of all, the earlier diagnosis of pulmonary carcinoma was becoming possible, especially in those cases in which it lay at the root of pulmonary suppuration, and other acute conditions. During the last fortnight he had seen four cases of acute febrile conditions where the diagnosis was in doubt but which might be labelled severally pleural effusion, atelectasis, bronchiectasis and pneumonia with a sudden shift of the mediastinum to the affected side; yet in each one of these cases there was a strong suspicion of a carcinoma as a basic cause. In all this the taking of an X-ray in a very sick patient might prove an exhausting procedure. The picture should be taken with the patient propped up by pillows in the half-recumbent position to allow of fluid levels being demonstrated. He must lie absolutely square with the position of arms and legs symmetrical. The cassette should then be slipped behind the patient and the tube orientated appropriately. Although this gave a posterior view when we would rather have an anterior it was easier for the patient. A true lateral view with the patient lying on the affected side, again half-recumbent only, was much more difficult for all concerned, but it was often an essential piece of evidence and must be aimed at. Oblique views, in his opinion, added little of value in these acute diseases. In conclusion the speaker showed a number of lantern slides illustrating these points.

A short discussion followed in which a number of practical points were emphasised. Dr. E. W. TWINING spoke of the value of the oblique view and discussed the relationship of the ring shadows and acute vesicular emphysema.—Dr. C. G. TEALL thought that the portable apparatus though very valuable did not always permit of fast enough exposures for children and in hospital it was sometimes best to take the child down to the X-ray department in its cot. Sometimes in taking a lateral view it was better to shift the apparatus rather than the patient.

ASSOCIATION OF CLINICAL PATHOLOGISTS

A MEETING of this association was held at the National Hospital, Queen Square, London, on Feb. 4, with Dr. J. G. GREENFIELD, in the chair. A discussion on the diagnosis and treatment of

Streptococcal and Pneumococcal Infections

was opened by Dr. V. D. ALLISON speaking on the grouping and typing of streptococci. He began by pointing out the importance in midwifery practice of being able to differentiate those hæmolytic streptococci that produce definite puerperal infections from those occasionally found as saprophytes in the genital and upper respiratory tracts. Lancefield has shown by chemical analysis that β-hæmolytic streptococci of human origin contain immunologically differentiated substances—namely, (*a*) a type-specific protein, M, which distinguishes types conforming with the results of agglutination tests; (*b*) a non-specific nucleo-protein, P, which gives cross-precipitin reactions with similar substances from *Str. viridans*, pneumococcus and staphylococcus; (*c*) a non-type-specific carbohydrate, C, upon the nature of which the classification of hæmolytic streptococci into groups by the precipitin reaction is based. Nine groups, A, B, C, D, E, F, G, H and K, had been described by Lancefield and by R. Hare and more recently two further groups, L and M, had been added by Fry and T. Hare. Members of group A (*Str. pyogenes*) are by far the most important from the standpoint of the clinical pathologist, for they are those most likely to cause serious human infection and are of considerable epidemiological significance. Statistics show that upwards of 97 per cent. of strains of hæmolytic streptococci from human infection belong to group A. Biochemical and other tests do not differentiate hæmolytic streptococci, but the Lancefield test enables the pathologist to recognise pathogenic and potentially pathogenic strains with considerable precision and makes it possible to eliminate as non-pathogenic many strains found in the upper respiratory tract, fæces and vagina. Griffith has shown by serological analysis that strains belonging to group A comprise a number of well-defined types identified by agglutination with specific sera. Some 26 types have been identified and no one type is exclusively associated with a

characteristic syndrome. Serological typing is of considerable value in tracing the sources and spread of group A infections, but is not yet a routine laboratory procedure.

STREPTOCOCCI IN RELATION TO PUERPERAL FEVER

Dr. R. M. FRY said that hæmolytic streptococci are much the commonest cause of severe puerperal infections. He considered that Lancefield's method of grouping is one of the most important advances in the work on hæmolytic streptococci. This method has been used as a routine at Queen Charlotte's Hospital for nearly three years, and during this period over 90 per cent. of severe and moderate infections have been due to group A streptococci—which according to evidence collected by Lancefield and Hare are not normally inhabitants of the female genital tract. Four group B infections, all fatal, included three cases of endocarditis and one of subphrenic abscess and liver abscesses. Among seven group C infections six were fatal; one was a case of endocarditis, and was a pure infection, but the rest were all mixed with other organisms which certainly contributed to the severity of the disease. Five group G cases, of which three were fatal, were all mixed infections. Dealing with the diagnosis of hæmolytic streptococcal infections in the puerperium, Dr. Fry pointed out that group A infections generally show a heavy, nearly pure culture from the genital tract. If only a small number of hæmolytic streptococci, mixed with many other organisms is seen, it is wise to suspect some other group. He laid stress on the importance of the soluble hæmolysis test, especially if grouping is not done, for by this means a rough guess can often be made as to the group, with the help of colonial differences. Anaerobic cultures, he thought, should always be put up, because of the occasional tendency for a hæmolytic streptococcus to appear as a green streptococcus in aerobic culture. This is especially noticeable with group A, although other groups sometimes show the change. He concluded with a brief description of the anaerobic streptococci found in puerperal fever, and said that these organisms accounted for 6–8 cases of septicæmia each year at Queen Charlotte's isolation block. They are sometimes difficult to isolate, for they grow slowly and are very intolerant of aerobic conditions. Although they are apparently a mixed group of organisms he thought that those concerned in fatal infections are probably closely allied, since the anatomical changes are very similar in all these cases.

STREPTOCOCCAL INFECTIONS IN INFANTS

Dr. A. G. SIGNY pointed out that immunological reactions in infants differ from those of older children and adults. He instanced immunity of infants to many exanthemata, due to passive immunity. Although some immune bodies derived from the mother last only one or two weeks, others—like the scarlet fever (Dick) antitoxin and the diphtheria antitoxin—are known to persist as long as six months. In discussing upper respiratory infections of infants Dr. Signy spoke of the theory of middle-ear infections as the cause of infantile diarrhœa and vomiting. He said that in 70 post-mortem examinations on infants under one year, of whom more than half had died of primary or secondary diarrhœa and vomiting, pus was found in one or both ears, proving that aural infection is a very common terminal infection in babies. In septicæmia a higher mortality is found in staphylococcal cases in infants, but in older children the mortality is higher in streptococcal infections. Discussing the sequence of events in streptococcal infections of the nasopharynx in older children, Dr. Signy pointed out that a long latent period may elapse between an infection and a subsequent nephritis or attack of rheumatism. He referred to the few proven cases of streptococcal erythema nodosum, and ended with a plea that all who have to deal with infants should wear efficient masks, composed of cotton-wool between two layers of gauze.

EPIDEMIOLOGY OF STREPTOCOCCAL INFECTIONS

Dr. F. E. CAMPS (Chelmsford) read a paper on the epidemiology of streptococcal infections with special reference to scarlet fever. In assessing the epidemiology of streptococcal infections, he said, all diseases due to the organism must be taken into consideration. Infections of the same type may or may not produce a rash, according to the immunity of the patient to the Dick toxin and/or the toxin-producing power of the particular strain of *Str. pyogenes* (group A); hence scarlet fever is merely a syndrome. The mode of spread is chiefly by droplets and by the hands, utensils, toys and food. Dr. Camps went on to outline particular types of epidemics, discussing those occurring in hospitals, cross-infections in fever hospitals, outbreaks in schools, infections in the community and milk-borne infections. In conclusion he said that the control of the disease depends on the appreciation of the various manifestations of infections due to *Str. pyogenes;* these are really the same diseases, whether there is a rash or not, and as a rule the infection is originally spread by droplets. He suggested that future progress depends on the discovery of some form of active immunisation.

STREPTOCOCCAL INFECTIONS AND RHEUMATIC DISEASES

Dr. SINCLAIR MILLER (Harrogate) confined his observations to rheumatic fever, rheumatoid arthritis, and osteo-arthritis. This last, he said, would be rapidly dismissed, for the joint changes were largely the results of degeneration and trauma, not of infection. He accepted a streptococcal origin for rheumatic fever, but said that the type of streptococcus involved and the mode of action are still shrouded in mystery. He regarded the hæmolytic streptococcus as the most likely causal agent but emphasised the occurrence of three phases in the development of the attack—namely, an initial infection in the throat or upper respiratory tract, a silent period of apparent recovery, and finally the onset of rheumatic fever. During the silent phase there are changes in the body immunity which allow the development of the rheumatic attack. As regards rheumatoid arthritis the consensus of opinion favours a streptococcal infection as the causal agent, though many claim that tissue sensitivity plays an important part. Dr. Miller pointed out that rheumatic fever and rheumatoid arthritis have many factors in common, including a preceding infection of the upper respiratory tract and similar streptococcal immunological reactions. It is impossible, he said, to assess the exact ætiological significance of these various findings; he suggested that judgment should be reserved and investigations should be continued energetically and critically without attempting, at present, too much interpretation of the results.

TREATMENT

Dr. L. E. H. WHITBY gave a short account of the sulphonamide compounds available for clinical use, and indicated their range of activity and efficiency. Early bacteriological diagnosis is important not necessarily as a prelude to immediate empirical

treatment but for the rational control of treatment when the infecting organisms have been definitely identified. The main principle to bear in mind when using sulphonamide drugs is that the appropriate drug must be absorbed into the blood-stream in an effective concentration and that this concentration must be maintained for a reasonable period. Clinical pathologists must be prepared to estimate the concentration of these drugs in the blood and spinal fluid, and Dr. Whitby described a number of methods for the purpose. The choice of compound for a particular case is a matter for experience and judgment. As a general rule the oral preparations have the advantage of being well absorbed, and of maintaining a steady concentration in the blood. Soluble preparations are quickly absorbed but quickly excreted; their use demands numerous and frequent inoculations. They are useful however for beginning treatment and for supplementing oral preparations where absorption is poor and they are obligatory when nausea and vomiting prohibit oral administration.

Methæmalbumin (Pseudomethæmoglobin)

Dr. N. HAMILTON FAIRLEY outlined the investigations leading to the synthesis of pseudomethæmoglobin—a pigment which he and Bromfield first recognised in the plasma of patients suffering from blackwater fever, and which they have recently demonstrated in incompatible blood-transfusion, nocturnal hæmoglobinuria and fluid from pancreatic cysts. It was first found that pseudomethæmoglobin appeared within forty-eight hours when hæmoglobin was incubated at 40° C. with human and simian plasma, but not with plasma of other animals. Later it was discovered that pseudomethæmoglobin was produced when alkaline hæmatin was added to human and simian plasma, but not to that of other animals. In serum protein fractions prepared by C. Rimington from man and monkeys (*Macacus rhesus*) pseudomethæmoglobin was produced with the albumin fraction, but not with the pseudoglobulin or euglobulin fraction. When alkaline hæmatin was added to the different proteins contained in the albumin fraction of human serum—i.e., crystalbumin, globoglycoid and seroglycoid prepared by L. F. Hewitt—pseudomethæmoglobin was formed only from crystalbumin. In view of these findings and the general similarity in chemical behaviour to methæmoglobin, pseudomethæmoglobin has been recently renamed "methæmalbumin." Finally, in both man and monkeys, methæmalbumin produced by the intravenous injection of alkaline hæmatin was found to be present in the albumin fraction. It proved to be identical with the methæmalbumin precipitated in the albumin fraction of human serum derived from a patient suffering from hæmolytic anæmia and splenomegaly. Methæmalbumin is never formed within the corpuscles, said Dr. Fairley, and cannot function as a respiratory pigment. It is derived from circulating extracorpuscular hæmoglobin and when present in plasma affords a new index to intravascular hæmolysis. During the extracellular katabolism of extracorpuscular hæmoglobin, hæmatin is produced; this unites with human and simian albumin to form methæmalbumin, the molecular size of which renders it impermeable to the kidney. For this reason it never appears in the urine.

The Xenopus Pregnancy Test

Dr. E. R. ELKAN gave an account of his experiences with the xenopus pregnancy test and said that in his opinion this test has not received the attention it deserved. Independent observers in South Africa, London, Edinburgh, and Aberdeen have carried out many tests with this animal and had found that it had many advantages. Xenopus (the S. African toad), has been a "pathologist's pet" since Hogben in 1930 discovered that the ovulation mechanism in these batrachians is highly sensitive to the injection of anterior-pituitary extracts, or to pregnancy urine containing gonadotropic hormone. The reaction-time depends on the temperature at which the animals are kept. It is quite easy to get reliable results in the course of one night. The eggs laid are easily visible with the naked eye. The animals, after a resting period of about one month, can be used again. They are easy to obtain and easy to keep and to feed. They are difficult to breed, but these difficulties could be overcome if suitable aquariums were used. Pregnancies can be tested with this method as with the Aschheim-Zondek or Friedman method as soon as there is a sufficient output of hormone in the urine. Since the laboratory does not always get exact data on the duration of the suspected pregnancy two precautions ought to be taken. Firstly, urine extracts only should be tested, and secondly, patients should be told to have as little fluid as possible the day before collecting the urine. Dr. Elkan said that in a series of 360 tests done on 2291 frogs he had not seen one wrong positive. Negatives may have to be repeated if the first test is done too early. Landgrebe has recently rêported on a series of 279 tests where comparisons were made with the Aschheim-Zondek technique. There were only 6 discrepancies. The xenopus pregnancy test in Dr. Elkan's opinion seems to be as reliable as can possibly be expected of any biological method.

MANCHESTER MEDICAL SOCIETY

AT a meeting of this society on Feb. 1 a paper on

Breathing Machines

was read by Prof. L. J. WITTS (Oxford).

No-one, he said, could pretend that the best solution had yet been found of the problem of prolonged artificial respiration and the organisation of apparatus for this purpose. Few people in this country could have any extensive practical experience of these problems and it was therefore most important that such experience as was available should be collected and collated. The subject of artificial respiration apparatus had been much in the news of late owing to the epidemics of poliomyelitis in Australia and Great Britain and to Lord Nuffield's offer to supply a Both apparatus to any hospital with over 100 beds. Names such as "iron lung" or "wooden lung" were not sufficiently comprehensive, and to avoid confusion with other forms of respiration apparatus and respirators Dr. Edgar Schuster had suggested the name "breathing machines."

These machines had been classified under the headings of methods involving complete enclosure of the patient's body, such as the Drinker and Both machines; methods involving partial enclosure of the patient, such as the Bragg-Paul Pulsator, the Burstall jacket and the Biomotor; methods depending on variations in the posture of the patient, such as the Eve tilter; and methods of insufflation such as the McKesson and Oxford respirators. (By permission of Prof. R. R. Macintosh, Prof. Witts showed a film made in the Nuffield department of anæsthetics which illustrated various types.) Machines could also be classified according as they exercised positive or negative pressure on the chest wall, but these terms were

often confused when applied to insufflation. Moreover, in some machines, such as the Drinker and Laffer-Lewis modification of the Burstall cuirass, both positive and negative pressure could be applied. The relative merits of positive and negative pressure were still unsolved. Nature abhors a vacuum and all negative-pressure methods were fraught with inherent difficulties in the nursing of the patient and the application of the machine. Positive-pressure methods offend the physiological conscience, and are too often condemned on a-priori reasoning.

Current statistics, said Prof. Witts, were hardly worth analysis and it was impossible to compare the more optimistic data with the grim figures from America, where 60 per cent. of the patients died in the Drinker, and half the remainder were dead in eighteen months' time. What was urgently needed was the assessment of different methods on similar clinical material by the same observer. Another vexed question was the value of breathing machines for acute emergencies such as drowning, poisoning and electric shock. There was a risk that they might do more harm than good if people interrupted the well-tried manual methods of artificial respiration to fiddle about with unfamiliar apparatus.

ROYAL ACADEMY OF MEDICINE IN IRELAND

At a meeting of the section of surgery on Jan. 13, with Mr. R. Atkinson Stoney in the chair, Dr. Oliver Chance and Mr. F. J. Morrin presented a report on

Carcinoma in the Buccal Cavity

Dr. Chance pointed out that buccal cancer is relatively uncommon, roughly 200 cases being seen yearly in Eire. From 1930 to 1936 he had kept notes of 539 cases, most of which were far advanced when first seen. In treating the primary growth, radiation therapy, usually by the implantation of radium needles, was preferred, but in a limited number of cases surgery was indicated. The treatment of the glandular field was primarily a surgical problem, but when surgery was out of the question radiation, particularly with deep X rays, had its uses. As intensive radiation was comparable in its severity with major surgery, considerable responsibility rested on the radiologist; he had to decide whether to push treatment to the limit, in the hope of effecting a cure, or to aim at palliation. Dr. Chance described the methods of keeping notes and of following up cases in use at St. Anne's Hospital, and reviewed the results obtained in the 178 cases treated more than five years ago. These showed an absolute survival-rate of 13·5 per cent., a crude survival-rate of 15·7 per cent., and a net survival-rate of 18·8 per cent. The importance of early diagnosis and early treatment was illustrated by the fact that when glands were not palpable 27·3 per cent. of patients survived five years, whereas when they were palpable and operable only 6·5 per cent. survived. A very grave responsibility rested on the doctor or dentist who first saw the case. Unfortunately some seemed to be unaware of the awful results that followed procrastination.

Mr. Morrin said he was satisfied that in the treatment of the primary ulcer radium therapy had displaced surgery, and he thought in time to come it would probably be used throughout. At the moment, however, block dissection of the glandular areas gave the best prognosis. The operation he performed was either a bilateral submaxillary dissection or a unilateral complete dissection from the clavicle to the base of the skull, depending upon whether the upper deep cervical glands were enlarged or not.

The Chairman said his first recollection of buccal cancer was forty years ago, when as a student he had seen a surgeon remove half the tongue. Kocher's submandibular excision simply opened up a large space of infection, though soon after the late war he had found that with B.I.P.P. it was possible to get a more or less primary closure of the neck wound. With regard to modern methods, an important question was the order of treatment. Was it better to first irradiate the primary growth, or should one first remove the cervical glands?

Dr. R. R. Woods said that the problem of buccal carcinoma was primarily a problem of secondaries. It was therefore desirable that both the public and the medical profession should be educated as to the absolute necessity for early treatment.

Mr. J. H. Coolican also emphasised the need for early diagnosis and said that attendance at radium centres should be made compulsory for all students. In his experience very little shock was produced by gland dissections largely thanks to the use of intratracheal anæsthesia.

Mr. T. A. Bouchier-Hayes said that at present students seldom saw these cases till they had reached an advanced stage. They should be given plenty of opportunity for seeing early cases.

Mr. A. B. Clery commended the very fine follow-up system in use at St. Anne's Hospital. As regards anæsthesia for cervical dissections, he himself used Avertin preceded by scopolamine, and combined with local anæsthesia.

Dr. J. M. Brady mentioned the value of contact therapy as compared with interstitial radiation. He had found this treatment very satisfactory.

Dr. T. J. Gilmartin said that for gland dissections he preferred intratracheal gas and oxygen to local anæsthesia, especially in debilitated and nervous patients.

Mr. J. C. Flood said that the reaction of carcinoma to any treatment depended upon the nature of the growth and its grade of malignancy. He thought it desirable that these growths should be graded before treatment began.

THE LANCET 100 YEARS AGO

February 23, 1839, *p.* 813.

From an account of malaria given by Dr. Addison at a meeting of the Westminster Medical Society.

. . . Look, too, at the absurd situations in which our aristocracy built their mansions. The houses of Sir R. Peel and the Duke of Buccleugh faced the river, looking upon the mass of mud left by the receding tide. He could not believe that these positions were harmless, or that the individuals residing in them escaped entirely from the effects of the miasma. It must not be forgotten that these aristocratic tenants were free from the hardships and exposures which, in the poor, led to the full development of miasmatic poison; and hence the escape of the former from its more fearful effects. Look at the mansion of the Duke of Northumberland, at Charing-cross, the only open front of which faced the river; while the opposite side was well guarded from the entrance of any breezes from the north or west. But the situations of all these places were nothing compared to the site of Buckingham Palace. Dante, himself, when writing the "Inferno," would have been pleased with the view of this miserably situated edifice, as taken from Piccadilly by twilight, the lamps flitting in the perpetual fog, like so many evil spirits. On a beautiful morning when all around was bright, Buckingham Palace was enveloped in fog and smoke.

REVIEWS AND NOTICES OF BOOKS

Syphilis, Gonorrhœa and the Public Health

By NELS A. NELSON, M.D., F.A.P.H.A., director, division of genito-infectious diseases, Massachusetts department of public health; and GLADYS L. CRAIN, R.N., epidemiologist in the division. London: Macmillan and Co. 1938. Pp. 359. 12*s*. 6*d*.

Dr. Nelson's forceful opinions and his outspokenness on the subject of the venereal infections have exercised an important influence on methods devised for the control of these diseases in the United States, and his views are here set out in a readable fashion. The authors believe that the first step in a successful programme of control is to re-educate the public and the medical profession to look upon these diseases as illnesses rather than evidence of sexual misbehaviour. They deplore the use of the traditional term "venereal," which to most minds connotes lasciviousness, and suggest that the word "genito-infectious" should be substituted.

The early chapters of the book deal with the diagnosis and treatment of syphilis and gonorrhœa, and are necessarily limited in scope since the book is intended for nurses, social and public-health workers and the general public as well as medical men. Nevertheless they are fully adequate to enable the reader to appreciate the inherent complexities and difficulties, which are without parallel in other branches of public-health work. The remaining chapters review all aspects of the control of these diseases in the light of a far-seeing comprehension of the issues involved and a wide practical experience. Dr. Nelson believes that notification is an essential part of the programme for control, since the health officer must know, if he can, what his programme is accomplishing and he must be able to keep the public informed. Practical suggestions are made for forms of notification which are, as he puts it, so simple, so available, so easily filled out and so conveniently returned that the physician will be willing to send them in, and which do not require the identity of the patient to be disclosed. On the other hand, compulsion is held to have no important part in case-control, for real success is only possible with the patient's coöperation, in the attainment of which sympathy and understanding is more effective than the strictest regimentation.

Altogether a timely book.

Science and Art of Joint Manipulation

Vol. I: The Extremities. By JAMES MENNELL, M.D.Camb., consulting physiotherapist, St. Thomas's Hospital, London. London: J. and A. Churchill. 1939. Pp. 233. 18*s*.

Dr. Mennell set himself a difficult task when he started out to describe in words and photographs the complicated movements he has evolved in the manipulation of joints. The ideal medium for such description, as he has himself discovered, is the cinematograph film, and the talkie film at that. Nevertheless, this book is definitely a success.

The manipulator soon learns that each joint in the body needs an individual approach. Whereas early movement to an injured shoulder-joint may obviate months of painful treatment to rid it of adhesions, the same technique with an injured elbow-joint may be disastrous. Dr. Mennell prefaces his descriptions of manipulations by a careful account of each joint and in particular of the opposing articular surfaces. He then goes on to show the range of movement between the joint surfaces which, not being under voluntary control, can be performed only passively by the manipulator. The value of restoring this range is convincingly demonstrated in the effect of limitation of downward gliding of the head of the humerus on the glenoid in impeding abduction and flexion of the shoulder-joint. He next deals with the movements under voluntary control and their restoration. Where little good is likely to result from manipulation the author says so: for example, in the chronic deformities of the foot produced by faulty footwear, where the extensor tendons through long displacement have become insufficient. In his introduction the author defines the aims of manipulative surgery and—very fairly—its relation to osteopathy and the like. Although primarily intended as a textbook for massage students the book deserves to be read by all who are interested in the restoration of full function after injury.

Nelson New Loose-Leaf Medicine

Renewal pages. London: Thomas Nelson and Sons. 1938.

THE chief adverse criticisms that could be levelled against the Nelson New Loose-Leaf Medicine when it appeared in 1937 were that some out-of-date sections had been retained from the original work issued in 1920 and that the abstracts of current literature were rather inadequate. The renewal pages do much to meet both objections. The new articles include two on tuberculosis. The first deals with the enormous subject of pulmonary disease in adults as adequately as can be expected within the imposed limits. The classification adopted would not meet with universal approval from the expert, and is so complicated that it is likely to confuse the beginner. The second, on tuberculosis in children, by Prof. Arvid Wallgren, richly illustrated from the author's long experience, is outstanding in its clarity and comprehensiveness. After these comes an entirely new article on the sarcoid of Boeck, a subject that has become of importance to the general clinician since the recognition of the widespread manifestations of this disease. The older articles on diphtheria, clinical chemistry, cancer of the breast and uterus, and menstruation have also been completely replaced. In the final section of the renewal pages the heavy task has been undertaken of reviewing the ever-increasing literature on sulphanilamide and on serum therapy in pneumonia. The sulphanilamide literature is well covered up to the middle of 1938, but the rapid advance of chemotherapy is illustrated by the fact that by then there had been no mention of M. & B. 693. On the whole these pages enhance the value of their parent volumes.

Diets for Diabetics

Arranged in menu form. By G. E. BEAUMONT, D.M. Oxfd, F.R.C.P., physician to the Middlesex Hospital, London. London: J. and A. Churchill. 1938. Pp. 49. 2*s*.

THIS booklet contains sixteen diets arranged in order of caloric value, with sufficient alternatives in each case to relieve the patient from the necessity of working out equivalent food values from tables. Unfortunately all are based on a low carbohydrate intake, for even the highest diet, with a calorie value of 2369, contains only 134·3 g. of carbohydrate. The book's usefulness is therefore somewhat limited, but it will still enable many patients to introduce safe and attractive variation into their menu.

Treves's Handbook of Surgical Operations

(6th ed.) Revised by CECIL P. G. WAKELEY, D.Sc., F.R.C.S., F.R.S.E., senior surgeon to King's College Hospital, London. London: Cassell and Co. 1939. Pp. 563. 12*s*.

THERE was always something very attractive about Treves's handbook for students. It was concisely written, eminently practical, and contained all the recognised operative procedures then in vogue. Under the able editorship of Mr. Wakeley it has been brought up to date, and in such a way that its general character has been preserved. Indeed, reading some of the new matter introduced, it is difficult to realise that it was not penned by the original author. There is, however, a striking change in the illustrations, which are now mostly wash, in place of the original line drawings which are becoming unfashionable. It is difficult to see why this should be, unless in this age of speed and hurry artists themselves are deserting the slower technique. The book is still an excellent guide to students preparing for the higher surgical examinations as well as to those who have passed such tests and are beginning practice.

Relaxation in Everyday Life

By E. J. BOOME, M.B., M.R.C.P., D.P.H., T.D., principal assistant medical officer, London County Council; and M. A. RICHARDSON, speech therapist and lecturer, L.C.C.; late therapist, relaxation therapy department, Elizabeth Garrett Anderson Hospital. London: Methuen and Co. 1938. Pp. 131. 5*s*.

RELAXATION as a therapeutic measure has long been known and practised, usually as an aid to more active psychotherapeutic treatments, and its value is well established. In this book the authors carry their advocacy of relaxation a stage further, recommending its sole use in severe psychoneuroses such as the anxiety states. They quote cases to show that a fully relaxed patient is able to bring into consciousness, without assistance, memories and inhibited ideas that have long been repressed. Here they will probably find themselves at variance with psycho-analysts and others who, while believing that relaxation assists analysis and abreaction, will be unlikely to agree that a patient should attempt these essentially psychotherapeutic measures unaided. The fact that their book is addressed to the man in the street makes this comment inevitable.

The intervention of the "relaxation therapist" in the treatment of patients suffering from epilepsy and enuresis, and the use of relaxation for conditions such as asthma and exophthalmic goitre, suggest that in such treatments the elements of suggestion and auto-suggestion cannot be excluded, and this the authors do not acknowledge as clearly as they might. When dealing with the effect upon the child of the nervous and unrestful parent, the authors are on ground that they obviously know very well, and a study of this part of the book should be of value to every medical practitioner. There is a special appendix on stammer which, while adhering closely to the method of relaxation for its cure, gives a useful summary of this difficult subject.

Quarterly Journal of Medicine

THE January issue contains the following papers:—

ON SPONTANEOUS PNEUMOTHORAX. By Kenneth M. A. Perry (London Hospital). A survey of the literature on benign spontaneous pneumothorax with observations on 85 cases admitted to the London Hospital in the years 1924–37. Recurrence took place in 4 cases; tense pneumothorax called for air aspiration in 3. All the evidence points to rupture of a subpleural air-containing vesicle, independent of active tuberculosis, as the immediate cause; the vesicle may arise from valvular obstruction of a bronchiole, from localised emphysema, or as a congenital defect. Apart from immediate risks the prognosis is favourable.

INSULIN RESISTANCE AND THE DIAGNOSIS OF THYROID DISEASE. By W. J. Griffiths (St. Thomas's Hospital). Capillary and venous blood-sugar levels in the arm are determined before and after simultaneous administration of glucose by mouth and insulin intravenously. An abnormally steep rise in capillary blood-sugar indicates central (hepatic) resistance to insulin; an abnormally small capillary-venous blood-sugar difference indicates peripheral (muscular) resistance to insulin action. Most of 17 cases of toxic goitre showed peripheral insulin resistance, returning towards normal after thyroidectomy. Most of 18 cases of non-toxic goitre also showed peripheral resistance to insulin. Some cases of both groups showed central resistance to insulin. The peripheral resistance points to a defective uptake of glucose by the muscles in both forms of goitre; this phenomenon, along with the creatinuria and muscular weakness often observed along with it both in thyroid disorders and in diabetes, acromegaly and dermatomyositis, suggests that a muscular disorder occurs in all these conditions independent of any disturbance of the basal metabolic rate.

FURTHER STUDIES OF PLASMA LIPIDS IN TOXIC GOITRE: Evidence Suggesting a Bimodal Distribution. By Eldon M. Boyd and W. Ford Connell (Queen's University, Ontario). Results of differential plasma-lipid determinations in 59 cases of toxic goitre are given. On statistical analysis they fall into two groups, a larger one with low total-lipid values, and a smaller one with high normal values.

PLASMA LIPIDS IN ANXIETY STATES AND THEIR COMPARISON WITH THE LIPOPENIA OF HYPERTHYROIDISM. By Eldon M. Boyd, W. Ford Connell and Arthur M. Doyle (Queen's University, Ontario). Values found in 76 patients with anxiety states lay between those found in normal subjects and in hyperthyroid patients, but the ranges overlapped too much to make the determination of use in differential diagnosis.

OBESITY, HYPOGENITALISM, MENTAL RETARDATION, POLYDACTYLY AND RETINAL PIGMENTATION. (The Laurence-Moon-Biedl Syndrome.) By Arnold Sorsby, Harold Avery, and E. A. Cockayne. Additions to the literature of this affection in the last four years are reviewed. Two new families are reported. The genetics of the condition are discussed, and a series of allied conditions described for comparison.

SUBSTITUTION THERAPY IN HYPOPITUITARISM. By A. W. Spence and L. J. Witts (St. Bartholomew's Hospital). In two cases of postoperative hypopituitarism treatment with combined thyrotropic and gonadotropic extracts of pig's pituitary caused only a transient rise in the basal metabolic rate. In one of the patients the treatment relieved an obscure stiffness and spasmodic twitching of the legs, and during treatment a previously almost complete achlorhydria was replaced by a copious gastric acid secretion.

Acta Medica U.R.S.S.

WE welcome a recruit to the ranks of medical publications: *Acta Medica U.R.S.S.*, published by the people's commissariat of public health, Moscow. The first number contains 260 pages and has sixteen original articles: seven in French, four in German, and two each in Russian and English. Most of them deal with pain and nervous regulation; but there is one on the part played by adenine nucleotide in the chemistry of muscle, one on a new serological test used in the diagnosis of syphilis, and one on lysozyme. The second number has much fewer pages and contains fifteen articles written on a greater variety of subjects: nine in French, three in German, two in Russian, and one in English. This periodical is advertised as "a magazine for physicians and scientific workers" and as publishing articles on "theoretical research and clinical practice," there being four issues a year. The subscription is 12*s*. a year or 6*s*. for six months, and it is obtainable from W. H. Smith and Son, Ltd., Strand House, Portugal Street, London, W.C.2, or from Collett's Foreign Dept., 67, Great Russell Street, London, W.C.1.

THE LANCET

LONDON: SATURDAY, FEBRUARY 25, 1939

CONVULSION THERAPY

THE Cardiazol treatment of schizophrenia has been following what seems the predestined course of any therapeutic method introduced into psychiatry. It has been extended to other forms of illness besides that for which it was proposed; its theoretical basis has been questioned; its efficacy and mode of action are still in doubt after four years of widespread trial; and it has been modified and combined with other methods to the confusion of those who would like clear proof of its usefulness. Many writers, such as VERSTRAETEN [1] and COOK,[2] have reported success in the treatment of involutional melancholia, as well as isolated cases of benefit in mania, hysteria, obsessional states and other mental disorders; indeed LEROY [3] of Liége finds it still more widely applicable, since he would use it for eczema, urticaria, migraine and asthma. Although it was originally conceived because there seemed a "biological antagonism" between epilepsy and schizophrenia, the clinical observations from which this antagonism was inferred are now in dispute. Explanations of what goes on in the cerebral tissues and the body fluids are numerous but there are still no satisfactory means of judging their correctness.

Which type of schizophrenia does best with the treatment is also unsettled. Dr. IAN SKOTTOWE at last week's meeting of the section of psychiatry of the Royal Society of Medicine suggested a tripartite classification in which one of the groups, characterised by disorder of symbolic thinking and expression, included those who were unlikely to do well with either cardiazol or insulin. Dr. John BRANDER, speaking after him, questioned whether either of these methods ever achieved results peculiar to them rather than to those who enthusiastically employed them: such scepticism as this would generally, however, be thought excessive. It is commonly supposed that cardiazol benefits stuporose patients chiefly, but as MEDUNA points out in his most recent paper [4] different observers have come to diametrically opposed conclusions. MEDUNA himself does not think we can yet say which groups of schizophrenics will respond well; as in the statistics published by Dr. REITMANN in our present issue, emphasis is rather put on the duration of the illness before cardiazol treatment is started. Comparison of the results with those obtained by other means is unsatisfactory, moreover, unless (among other things) the patient's recovery or remission has always been assessed at approximately the same length of time after the conclusion of the course. Making due allowance for this, the interesting figures given in the paper by Drs. STALKER, MILLAR and JACOBS on another page, indicate that the benefits of shock treatment may consist rather in shortening the duration of the illness than in improving on the outcome attainable by less drastic methods. Various writers believe that discrepancies in the reported results of cardiazol treatment in different centres are due in part to the differing degree to which psychotherapy is utilised in the procedure. MEDUNA, who holds this view strongly, explains what lines his psychotherapy follows: it will appear to many that the simple and kindly persuasive method he employs, mainly to lead the patient towards insight into the morbidity of his former delusions and hallucinations, is hardly likely to affect the course of the illness or the statistics materially, though it would of course be a proper and helpful feature of the treatment.

Among the risks of cardiazol treatment it is not necessary to include death: 9 fatal cases among 2937 is not an alarming record on the whole; though there have no doubt been other and unreported fatalities their number cannot be large, and so long as the selection and treatment of the patients is carried out cautiously there is scarcely anything to fear on this score. Dr. ATKIN communicates on another page some observations on triazol, the related analeptic introduced by MAYER-GROSS and WALK, and describes how he has given a supplementary dose when the first has not sufficed to cause a fit—a procedure that obviously calls for great care if no undue risk is to be taken. He also mentions the possibility that pulmonary tuberculosis may be stirred up by the treatment. Of the non-physical risks very little has been written. RÜMKE [5] of Utrecht has seen patients whose condition was made worse by cardiazol, and others in whom insulin had had a similar untoward effect—namely, that they lost some of their schizophrenic features but became apathetic and without initiative, monotonous, vague, and indifferent to social requirements. MEDUNA, however, has not met this. Most of those who have worked with cardiazol will admire MEDUNA'S honesty and endorse his opinion when he writes: "As regards enthusiasm, I must confess that I am not myself enraptured with the cardiazol treatment, but for the present I do not know anything better that I can recommend. In any case I regard it as my duty to work as hard as I can at devising a procedure that obviates the apparently violent shock to the patient, while utilising only the biochemical processes to which the shock gives rise."

BACTERIA IN THE AIR

WE have for many decades recognised that clean water and milk are essential if the spread of intestinal infection is to be limited. The importance of the air, as a vehicle for those pathogenic micro-organisms that survive their immediate discharge from an infective source, has only recently received recognition. The state in which living bacteria are carried for long periods through the air is a matter for conjecture. There is both circumstantial

1. Verstraeten, P., *Ann. méd. psychol.* 1937, **95**, 654.
2. Cook, L. C., and Ogden, W., *Lancet*, 1938, **2**, 885.
3. Leroy, A., *J. belge Neurol. Psychiat.* 1938, **38**, 613.
4. Meduna, L. von, *Psychiat. neurol. Bl., Amst.* 1938, Nos. 5 and 6.
5. Rümke, *Ibid* (discussion on Meduna's paper).

and experimental evidence that most of the pathogenic bacteria in the air are spat, sneezed, talked and coughed into it from the respiratory tracts of men and animals. They may be as dry as dust, but it is more likely that the natural affinity for water possessed both by the bacteria and their enveloping mucus prevents complete drying, and that the particles float about in a state of partial hydration. Air bacteria have been removed by filtration and killed by ultraviolet light, but such methods involve the installation and maintenance of expensive plants. A room full of air may be cheaply and efficiently sterilised by some form of antiseptic, but unfortunately the concentration of an antiseptic gas or vapour that kills bacteria is equally poisonous for human protoplasm, and the air is not fit for use until the antiseptic has been removed. Sterility cannot be maintained while human beings are in the room, for hitherto any bearable concentration of antiseptic has been ineffective against the bacteria. It has now been found, however, that by atomising a strong antiseptic solution the air can be filled with a mist so fine that the final concentration of antiseptic is very small indeed, sometimes as low as one part in several millions. Dr. PULVERTAFT and his colleagues describe in this issue experiments with antiseptic mists, called Aerosols, that are capable of ridding the air of living bacteria.

The aerosol consists of a suspension in air of liquid droplets about 1/200 of a millimetre in diameter, which are small enough to remain in a still atmosphere for many hours. They contain, in addition to the antiseptic, substances with an affinity for water, which prevent the rapid evaporation which would take place from the surface of a pure-water droplet of the same size. The concentration of antiseptic in the droplets is thus about the same as that in the parent fluid. In the aerosol the distance between droplets is such that, supposing them to be evenly distributed and immobilised in space, each droplet would have to account for the death of all the bacteria round it, in an air space about 10,000 times its own volume. Since the antiseptic is not volatile the sterilisation of the air will obviously depend on the degree of mixing that takes place in the mist, and the readiness with which the bacterial particle absorbs the antiseptic droplet, or the droplet the bacterial particle. Currents moving at a few millimetres per second can carry aerosol particles, and even in a quiet room bacteria and droplets will be continually approaching one another. Moreover, as the mist slowly settles, the concentration of droplets, and therefore the frequency of approach, increases in the lower levels. Whether a bacterial particle coming into contact with a droplet will enter it, depends on the nature of the two surfaces. Two particles of similar electrical charge, for example, will repel one another. The readiness with which mutual absorption of the two will take place is determined by the physical and chemical differences between the bacterium and the antiseptic droplet. The electrical field on the surface of an aerosol may be changed by the addition of surface-active chemicals; these increase sterilising power. Sterilising power is, on the other hand, decreased by the presence on each droplet of a surface film of oil, which presents to the atmosphere a particularly inert electrical field. Many antiseptics, highly lethal in bulk, are ineffective as aerosols; and it is possible that they are so because they induce in the droplet a surface unsuitable for absorption of the bacterial particle. Possibly too the greater resistance to aerosol sterilisation that Dr. PULVERTAFT found in the diphtheria bacillus is due not to any inherent resistance of its protoplasm to poison but to a surface inapt for absorption into a droplet.

The mists are innocuous to man because, being sparse, their average concentration in air is low; they are effective presumably because of their power of absorbing bacteria. But the very properties which make them effective in air render them inefficient for the sterilisation of solid surfaces. Dr. PULVERTAFT has shown that it is only on glass, rubber or metal that a test dose of dried bacteria is killed. If the surface to be sterilised is porous the mist is absorbed on to it; if the bacteria are wet—that is, relatively hydrated—they will not absorb the mist, even on the most favourable surfaces. For similar reasons it is unlikely that aerosols penetrate far into cracks and other narrow spaces. Not only are these bounded by absorbent surfaces but their narrowness will prevent those mixing motions of the air that ensure contact between bacterium and droplet. It appears that the method may be applied with some certainty to large bodies of relatively still air. The case for the sterilisation of continuously replaced air is less well established; it would at present be an expensive procedure to dose the air-supply, for example, of a large ward with an adequate concentration of antiseptic mist.

There is need for more research into the nature of the colloidal forces that obtain on the surface of various air-borne particles. We know a good deal about the way in which the behaviour of a bacterium in fluid suspension is determined by its surface but very little about the physicochemical state of bacteria or bacteria-containing particles in air. Further study of these floating particles will no doubt remove some of the limitations of sterilisation by aerosols. For the present, as Dr. PULVERTAFT points out, even partly effective methods are of value; and we may be thankful for additional weapons against at least one kind of menace from the air.

TONSILLECTOMY ON ITS DEFENCE

IN his report for 1923 as chief medical officer of the Board of Education, Sir GEORGE NEWMAN remarked that 47,000 operations for the removal of adenoids or enlarged tonsils had been performed during the year on children in schools maintained by local authorities. He adjured education authorities and school medical officers to ensure that such operations were undertaken only when absolutely necessary. It was not sufficient, he said, for the school doctor merely to find local inflammation or even hyperplasia; he should satisfy himself in respect of each case that operative

treatment was required. A little later a departmental committee concluded that the immediate results of operation were favourable in the great majority of cases. In 1930 NEWMAN gave the total number of cases operated on for tonsils and adenoids as 97,518, 75,794 of the operations being done under arrangement with local education authorities; this was equivalent to 55 per cent. of the number referred for treatment, and he again urged school medical officers to satisfy themselves, before undertaking operative measures, that the condition of the throat and nasopharynx had or was likely to have a detrimental effect on the child's health. It was not until the following year that NEWMAN, in response to anxiety felt by the Board of Education at the continued increase in frequency of operation, felt himself in the position to assess the situation. The immense and rapidly increasing number of such operations was bound, he said, to convey an impression that far too many were being performed. The lack of accurate knowledge on this great problem of school medicine, too, was surprising; here was an opportunity, he suggested, for some energetic and alert member of the school medical service to play the part of a JAMES MACKENZIE and make the appropriate investigation in a small compact community. In 1932 he registered a singular decrease in numbers operated upon in certain areas, and expressed his gratification that cases were being followed up over a series of years. But it was left to Dr. J. ALISON GLOVER, as senior medical officer of the Board of Education, to provide a general review of tonsillectomy as a prophylactic ritual.[1] In an address to the Royal Society of Medicine he left the anomalies of incidence to speak for themselves; citing, for example, the fact that a child living in Rutlandshire or the Soke of Peterborough was nineteen times more likely to undergo tonsillectomy than one living in Cambridgeshire. He found throughout the country enormous variations, unrelated as far as anyone could see to environment, circumstances, efficiency of school medical or dental services, or indeed to any recognisable factor. He also pointed out that tonsillectomy is at least three times as common in the well-to-do classes, but without implying that mundane reasons influenced the surgeon. As he was dealing mainly with children attending state-aided schools his challenge was clearly that tonsils were being removed with good intent but without good cause.

The reply was sure to come, and its delay is testimony at least to the skill with which Dr. GLOVER marshalled his facts. Dr. C. W. ANDERSON has come to the conclusion[2] that GLOVER'S evidence does not prove his thesis, for other explanations of the local and temporal variations of the rate are possible. In localities where it was formerly high the rate has, he says, been greatly reduced without material influence on child health, and this suggests to him that the former rate would now be excessive; it was necessary at the time, but is so no longer owing to the diminution of throat conditions calling for operative treatment. Assuming that tonsillectomy can be harmful, a reduction of unnecessary operations should have improved child health; on the other hand if the reduction in operations has been too sweeping any good effects from diminishing the number of unnecessary operations might be masked by the bad effects of diminishing the number of necessary ones. As evidence that the state of the tonsils varies from year to year, ANDERSON gives the tonsillectomy-rates among elementary and high-school children in Cardiff from 1923 to 1937 (they are only slightly above the average for the country). The rate rose from 1·03 per 1000 average attendances in 1923 to 2·49 in 1931, the peak year of the "tonsil rush"; it fell to 0·71 in 1935, but rose again to 1·27 in 1937. There was no change of policy or personnel during the period, so he believes that the variation in rate reflects a genuine variation of the need for the operation, the criteria remaining constant. What applies to different years will apply also to places, and ANDERSON illustrates by a graph the connexion between the tonsillectomy-rate and the variation in prevalence of epidemic diseases which cause sore-throat. In most places where the rate has been drastically reduced it tends to rise again, which may suggest that the reduction had gone too far. Not only the tonsils but also the state of medical opinion may change; undoubtedly part of the big rise was due to the belief that removal of tonsils might prevent juvenile rheumatism. Available evidence is now against such removal, so the number of tonsillectomies for this purpose will fall; but it was an honest and possibly valuable trial of a preventive measure. He does not deny that many tonsils have been removed for simple physiological enlargement, nor does he dispute that when adenoids are removed because they are causing obstruction the tonsils are often removed at the same time as a routine—both of which practices are unsound. Similarly in the years when there was a popular fear of "septic foci" many tonsils were sacrificed which might have been spared.

Dr. ANDERSON gives cogent reasons for the rapid rise of tonsillectomies up to the peak years and for the fall that ensued. Some of the causes of the rush—the growing appreciation of the benefits of the operation, the provision of facilities formerly lacking, the accumulation of cases—will not reappear. Hence the figures for the peak years will probably remain as a record. But according to ANDERSON the low rates of the post-rush period will also pass, since they too were largely artificial. This remains to be seen.

1. Glover, J. A., *Proc. R. Soc. Med.* 1938, **31**, 1219; see *Lancet*, 1938, **1**, 1278.
2. Anderson, C. W., *Med. Offr*, Jan. 7, 1939, p. 5.

". . . The surgical literature of today, apart from such textbooks as must rank as masterpieces, is very often mortally dull. With its desire to be impersonal, with its false appearance of modesty, its proper names in parenthesis, with its childish didacticism, and its constant reiterations of things already said a hundred times, with its mosaic of contradictory and corresponding opinions, it has become unreadable."—RENÉ LERICHE in the introduction to his book "The Surgery of Pain," London, 1939, p. 18.

ANNOTATIONS

CHEMOPROPHYLAXIS

THE use of sulphonamide compounds to prevent possible infection has been a common practice, but their value for this purpose is necessarily difficult to assess. Specific remedies of other kinds are even more certain in their preventive than their curative action, and on theoretical grounds there is no reason for supposing that these drugs are an exception. There is also evidence that they will prevent the development of streptococcal infection in mice; this was found several years ago to be true of Prontosil, and Hoare[1] has now shown that if due regard be paid to questions of dosage, route of administration, and the solubility of the drug used, so that an adequate concentration is maintained in the blood, sulphanilamide and M. & B. 693 will exert the same effect. His conclusion both from these experiments in mice and from observations on the bactericidal power of the blood in parturient women given these drugs prophylactically is that a dose of 1 g. three times daily will prevent streptococcal infection, and should be given when there is a special risk of this. The choice of suitable cases will always remain a matter for individual judgment, but clearly their main distinguishing feature should be the limitation of risk to a known and brief period—whether that of labour, of a surgical operation, or of some other known exposure to possible infection. There is, for example, a case in favour of such treatment at least in some cases of influenza and measles, with a view to preventing otitis or pneumonia, because the period during which these complications are likely to arise is limited to a few days. On the other hand the protection of normal exposed persons against epidemic sore-throat or scarlet fever might have to be maintained for weeks unless all possible sources of infection could be removed; such prolonged administration may well be unjustified, and it is not surprising that such attempts, as in the experience of Smith,[2] have had disappointing results.

It is almost universally believed that a single course of sulphanilamide should not last longer than about a fortnight, both because no purpose is likely to be achieved by prolonging it—although repetition may be necessary, as in treating gonorrhœa—and because continuation brings added danger of toxic effects, particularly on the bone-marrow. In view of this belief, no small astonishment is likely to be felt at two reports from America on the prophylactic use of sulphanilamide in patients subject to rheumatic fever, since this was continued in some cases for as long as eight months without interruption. It is abundantly clear, and cannot be too strongly emphasised, that sulphanilamide is useless and indeed harmful during an attack of rheumatic fever. This attack may be looked upon as the sequela of a streptococcal throat infection, and the drug was here used in an attempt to prevent such infections over a considerable period. In several series of cases described by Coburn and Lucile Moore[3] children from six to fourteen years of age under care in an institution were given 2–3 g. of sulphanilamide daily for eight months; Caroline Thomas and France[4] gave only 1 g. or 1·3 g. daily to adult outpatients for seven months. No ill effects were observed other than some failure among the children to gain weight, and almost without exception the patients remained free from rheumatic attacks during the period of administration. Coburn and Moore's cases are the more significant, since they were more numerous and more liable to attacks of streptococcal throat infection by reason of their age and history, and the fact of their confinement together in an institution where such infections are liable to spread. Careful studies were made of the sedimentation-rate and of the throat flora; the frequency and degree of the streptococcus carrier condition seem also to have been diminished.

This work will repay detailed consideration by those interested in the care of rheumatic subjects. That it is possible to give sulphanilamide for such long periods is an important observation, but it is hard to think of any other condition in which such treatment can be necessary or justified.

1. Hoare, E. D., *Lancet*, Jan. 14, 1939, p. 76.
2. Smith, A., *Ibid*, 1937, **2**, 1064.
3. Coburn, A. F., and Moore, L. V., *J. clin. Invest.* January, 1939, p. 147.
4. Thomas, C. B., and France, R., *Bull. Johns Hopk. Hosp.* January, 1939, p. 67.

SPRUE

IN an analysis of 20 cases of non-tropical sprue seen in Switzerland during the last four or five years Markoff[1] points out how many of the so-called signs of sprue are those encountered in all states of extreme undernutrition, the only striking difference in sprue being its association with anæmia, though even this is not invariable. He seems to regard non-tropical sprue as merely a severe gastro-enteritis combined with and enhancing undernutrition. In a somewhat similar way Rohr[2] believes that the disease is the result of three interacting factors: first, a gastro-intestinal disorder; secondly, a deficiency of vitamins, iron, calcium, and Castle's principle; and thirdly, disturbances of endocrine function—the first being the most important. Attractive as the theories involving endocrine disturbances may be, and particularly that of Verzár,[3] it is far from proved that such disturbances play any part in the production of idiopathic steatorrhœa. In a paper recently noted in these columns Brull, Lambrechts, and Barac[4] laid stress on the rôle of vitamin deficiencies, and Stadler[5] also thinks that a secondary deficiency of vitamin B_2 is important. Malabsorption admittedly has much to do with the causation of sprue and soon leads to the establishment of a vicious circle, but it seems clear that the nutritional deficiency is relative and secondary to some more fundamental failure. Tropical sprue, for example, often attacks Europeans in India and is almost unknown in Africa, but the diet of Europeans in India normally appears adequate and certainly is not obviously inferior, either quantitatively or qualitatively, to that of their fellows in Africa. In the established disease Fairley[6] has shown the value of compensating for deficiencies resulting from malabsorption, and of alimentary rest, by restriction of fats and carbohydrates, in the restoration of the absorptive function; but the fact that these measures break the vicious circle and change the whole course of the condition does not prove that they point to the true ætiological factor. Furthermore it is by no means certain that tropical and non-tropical sprue are essentially identical, to say nothing of cœliac disease. The interest that is now being displayed in these syndromes, however, must inevitably lead not

1. Markoff, N. G., *Helv. med. Acta*, Suppl. III, 1938, **5**, 1.
2. Rohr, K., *Dtsch. Z. VerdauKr.* 1938, **1**, 46.
3. Verzár, F., *Schweiz. med. Wschr.* 1937, **18**, 823.
4. Brull, L., Lambrechts, A., and Barac, G., *Rev. belge Sci. méd.* 1938, **10**, 457; see *Lancet*, Jan. 14, 1939, p. 100.
5. Stadler, H., *Schweiz. med. Wschr.* 1937, **67**, 1091.
6. Fairley, N. H., *Trans. R. Soc. trop. Med. Hyg.* 1930, **34**, 131.

only to their elucidation but also to important additions to our knowledge of the physiology and pathology of nutrition.

A PORTRAIT

NEXT Wednesday at the house of the Royal Society of Medicine Dr. Robert Hutchison is to receive a presentation portrait from his friends. So runs the announcement; but it would be more correct to say "from some of his friends." There can be few men alive today who have had a more intimate influence than Hutchison on the everyday practice of medicine, and he has achieved it largely by the direct impress of personality. All over the world practitioners think of his precepts as they work at the bedside; their faces faintly reflect his smile as they remember his salted sayings, and they are daily saved from imprudence and humbug because they were taught by a man with a sublime gift for common sense. Mr. James Gunn, who has made the portrait, has done well to paint the face in detail, and his study will interest succeeding generations in our present president of the Royal College of Physicians. Today we are concerned less with the president than with the pleasure of paying affectionate tribute to one of our greatest clinicians and teachers. By whatever title Dr. Robert Hutchison is known to posterity, for most of us it will never quite replace the title of physician, preceding the honest Scots names to which he has given distinction.

POSTURE IN THORACIC SURGERY

THE position of the patient on the operating-table does not give rise to much difficulty in the work of the general surgeon, but in thoracic surgery it constitutes a major problem. Most thoracic operations are performed on the patient's back, and special arrangements have to be made to secure the greatest degree of comfort and convenience for both patient and surgeon. In operating for empyema the sitting or "jockey" position has the advantage of allowing easy access to the correct site for drainage but in this position the shock produced by rib-resection would be likely to cause syncope. Consequently the lateral posture is the one most commonly employed. In this the site of operation is uppermost, and the only problem is to keep the patient stable and prevent him from rolling onto his face or back. Various attachments to the operating-table, such as a plate-like chest support and pelvic cushions, make it possible for the patient to be rigidly held without embarrassing his respiration. Critics of this position suggest that the healthy or underlying lung may be restricted by being lain on, but the spirometric observations of the late Prof. Jacobaeus showed this supposition to be wrong. On the other hand, it is a justifiable criticism that secretions from the side being operated on may flow into the healthy lung and if they cannot be expelled may have harmful effects. To overcome this difficulty Iselin and Julia [1] advocate placing the patient in the prone position. The pelvis rests on a large cushion and a soft support is also provided for the shoulder-girdle. They say that the respiratory excursions on both sides are thus unimpaired, and that by inclining the table so that the body slopes downwards and flexing the neck secretions can flow from the air-tubes to the mouth without the effort of coughing. In thoracoplastic operations one of the tasks of an assistant is saved by allowing the arms to hang down over the sides of the table, so that their weight pulls the scapulæ forward. Iselin and Julia claim that the actual operative procedures are easier once the surgeon has become accustomed to the new orientation, and that the patient is less liable to complications.

1. Iselin, M., and Julia, A., *Arch. méd.-chir. Appar. resp.* 1938, **13**, 213.

SIMPLER TREATMENT OF WAR WOUNDS

THE Spanish war has seen a peculiar development in the treatment of wounds, mainly towards simplification and partly for reasons of economy. The use of medicaments and cotton-wool has diminished enormously, and greater reliance is placed on *vis medicatrix naturæ*. In their Air-raid article in our last issue Mr. Mitchiner and Mr. Cowell discussed the closed method of treatment by which suppurating wounds and compound fractures of limbs are enclosed in plaster-of-paris, which is left in situ for a fortnight at a time; but in Spain the open method also is used for similar wounds. Where patients are in bed the wound can be protected by a metal cage; where they are ambulant the same thing can be done with an oval or circular rampart of cardboard or other flexible material padded and wrapped in gauze, applied to the surface of the body round the wound, kept in position with gummed tapes, and covered with a layer of gauze.[1] If the suppuration is excessive a roll of gauze can be placed within the cage—along its walls, but out of contact with the wound—and can be removed whenever necessary. A further precaution in such cases is to line the cage with batiste or to smear it with zinc ointment. This method of treatment, it is claimed, not only makes a great saving in the quantity of dressings used but also promotes more rapid healing.

LIQUID PARAFFIN AND CAROTENE ABSORPTION

TWELVE years ago Burrows and Farr [2] showed that rats were unable to utilise the vitamin A of butter fat when it was mixed with liquid paraffin. Later workers found on the other hand that liquid paraffin had no effect on the utilisation of the vitamin A of cod-liver oil. The significance of this difference was not explained until Moore [3] in 1929 differentiated between vitamin A and its precursor carotene, and subsequent animal experiments have made it clear that whereas the absorption of carotene is seriously interfered with by the presence of liquid paraffin in the alimentary tract that of vitamin A itself is not. These observations have now been carried a step further by Curtis and Kline,[4] who have studied the effect of the administration of liquid paraffin on the blood-carotene in human beings. They first showed that in people taking a low-carotene diet the blood-carotene fell steadily when crystalline carotene dissolved in cotton-seed oil was given mixed with liquid paraffin, but rose rapidly when the carotene solution was given alone. They next gave their patients a high-carotene diet and found that when 20 c.cm. of liquid paraffin was taken before meals the blood-carotene remained at a constant level, whereas it at once began to rise when the liquid paraffin was omitted. A daily dose of 30 c.cm. of paraffin given at bedtime, however, when there was no likelihood of it becoming mixed with food, had little if any effect on carotene absorption. Curtis and Kline point out that their results apply only to

1. Elik, A., *Rev. Sanid. Guerra*, June-August, 1938, p. 304.
2. Burrows, M. T., and Farr, W. K., *Proc. Soc. exp. Biol.* 1927, **24**, 719.
3. Moore, T., *Biochem. J.* 1929, **23**, 803.
4. Curtis, A. C., and Kline, E. M., *Arch. intern. Med.* January, 1939, p. 54.

carotene and not to vitamin A as such, but nevertheless their findings are an argument against the common practice of prescribing paraffin at mealtimes, when many think it acts best as a laxative and is less liable to leak.

A NEW NEUROLOGICAL INSTITUTE

THE appointment of Prof. F. L. Golla as director of the new Burden Neurological Institute gives the clue to the purpose of an admirably designed surgical unit within the grounds of Stoke Park, near Bristol. The building comprises laboratories for biochemical, physiological and endocrinological research, together with two observation wards each containing 10 beds. It was built and equipped by Mrs. Burden, the benefactress of the Stoke Park mental defective colony, and maintenance funds have been guaranteed for ten years by the Burden trustees. The institute is under a committee which has Sir Laurence Brock as chairman, and with Prof. Golla are associated Mr. W. Grey Walter, Prof. Max Reiss, Mr. L. D. MacLeod, and Mr. A. H. Tingey. In the first instance research work will be concentrated on the pathological physiology of epilepsy and the pathology of schizophrenia, a small number of cases of each being intensively studied. It is hoped to establish relations with mental hospitals in the vicinity and to form a centre for the promotion of scientific research in psychiatry. There are already clinical research wards at the National Hospital, Queen Square, and Edinburgh is famous for neurological research, but this institute is possibly the first example in this country of research laboratories with wards attached for the intensive study of mental and neurological cases; for elsewhere laboratories exist as ancillary to the exigencies of a hospital service. The institute is to be opened by Sir Thomas Inskip early in May and Dr. Golla is resigning the chair of pathology of mental disorders in the University of London.

HUMUS AND HUMANITY

OF the many avoidable ills which inflict us, two of the more obvious are malnutrition and soil erosion, which are in some respects interconnected. The destruction and loss of soil by wind and water erosion as the result of faulty agricultural methods is now being recognised as a serious menace to the welfare of the inhabitants of many parts of the world, and particularly of Africa. It is nowhere more serious than in Southern Rhodesia where Mr. G. C. Watson lives. It is therefore not unnatural that he should express himself strongly on the subject in his book "The Soil and Social Reclamation" (London: P. S. King and Son. 1938. Pp. 173. 7*s*. 6*d*.). But the more urgent the problem the more essential it is that its significance should not be unreasonably exaggerated, and that any statements made should be based upon sound scientific knowledge. To the statement that "much of the desert portions of Africa are man made" might in fairness have been added that the world's major desert, the Sahara, is known to have been arid for at least five times as long as man has existed. That "Diseases are now mainly traceable to malnutrition through faulty diet, which in turn is due to wrong treatment of the soil" contains much truth but as it stands is obviously open to exaggerated misinterpretation. The author would have been well advised to omit any mention of the scientific aspects of nutrition, a subject on which he is singularly ill informed. "Cretinism and goitre, for example, have been traced to excess of lime" is one of several statements which support this conclusion. On the other hand he is well aware of the wider significance of malnutrition in Africa and makes the admirable plea that employers of native labour should more fully realise their duty, and indeed their own interests, by instructing their employees "with patience, with charity and by example" in the principles of hygiene and sound nutrition.

MENOPAUSAL ARTHRALGIA

THE existence of a special type of arthritis or arthralgia in women at the menopause has often been affirmed and often denied. Hall[1] of Boston has come to the conclusion that there is evidence for the existence of at least two types of menopause and perhaps two types of menopausal arthralgia. He has noted that there is a type of patient, suffering from either arthralgia, or atrophic or hypertrophic arthritis, who exhibits good evidence of coexisting thyroid deficiency, the correction of which always improves her health and often aids in controlling the joint disturbance; he hesitated to name this condition menopausal arthralgia, for it is often seen in younger people and indeed in both sexes. Hall's second group displays the usual menopausal symptoms; there is no sign of thyroid deficiency, and the joint disturbances are those liable to follow castration. In 1934 stimulated by the dramatic relief of all symptoms by giving œstrogenic hormone to a woman whose ovaries and uterus had been removed he began to give œstrogens more generally and in bigger doses. Finding that he was often able to influence arthralgia and arthritis he has collected a group of 71 cases whose chief complaint was joint symptoms following the removal or destruction of the ovaries. The majority (53) he classified as arthralgia to distinguish them from 18 cases of true arthritis; their sedimentation-rate was normal or only slightly raised, there was no clinical or X-ray evidence of changes in the joints, and no development of true arthritis after the symptoms had been present for years. The amount of œstrogenic material needed to control arthritic symptoms varied considerably, and usually (though not always) more had to be given to control the arthralgia than to control the menopausal symptoms. As a rule 10,000 international units by intramuscular injection twice weekly for 4–6 weeks proved sufficient, but he remains doubtful about the existence of any true "menopause arthritis."

LEAD NIPPLE-SHIELDS

LEAD poisoning has occasionally been reported in children from chewing painted toys or furniture, and in Australia from drinking water which has run off leaded roofs. In America the death of an infant from lead poisoning was recently traced to the use of a lead nipple-shield by the child's mother, and according to the New York state department of health such shields can easily be obtained, though actually they are not often used. The descriptive matter accompanying these shields states that they have been used since 1842 for the prevention and cure of sore nipples, and that their curative effect depends on the nipple being immersed in a solution of lactate of lead formed by the action of the lactic acid in the milk on the lead in the shield. It is said that the shields are in no way likely to be injurious to the infant, but the death referred to is evidence to the contrary. The public health council of New York has now adopted an amendment to the state sanitary code prohibiting the sale or use of such

1. Hall, F. C., *New Engl. J. Med.* 1938, **219**, 1015.

shields. In this country the popular forms of nipple-shield are either made entirely of rubber or are of glass with a rubber teat attached. Further, in this country the treatment of sore nipples does not usually include the use of lead as a therapeutic agent, since there are other local applications which are safe from the point of view of the baby, such as friar's balsam or tannic acid. Recent correspondence in the *British Medical Journal*[1] shows, however, that Wansbrough's metallic nipple-shield is still occasionally employed for cracked or sore nipples. Dr. Joseph Walker of Liverpool, who introduced the subject, suggests that although the prolonged use of the shield might be a source of plumbism in the infant, in his method of using it the danger is remote. He emphasises the great importance of cleansing both the nipple and the shield before use. At the time when he wrote Dr. Walker had not heard of any case of lead poisoning due to the shields. Now that an example is forthcoming it would be interesting to know to what extent lead nipple-shields are, in fact, being used. The warning from New York cannot be disregarded, though with proper precautions the risk is probably small.

DEEP SECURITY

A FEW weeks ago a letter appeared in the public press signed by members of the medical and surgical staffs of leading hospitals in London and other great cities. This letter pointed out frankly that efficient medical and surgical treatment of air-raid casualties is impossible unless bomb-proof shelters are provided for those who cannot be evacuated promptly from danger areas. However well existing hospitals are organised, they may become so damaged in an air-raid as no longer to provide either safety for the casualties or facilities for their treatment. Urgent operations upon the wounded must be performed in spite of continuous air-raids and cannot be performed without protection from shock or concussion. This reasonable appeal was taken up by Lord Horder in the course of a comprehensive debate on air-raid precaution policy in the House of Lords last Thursday. There will, he said, inevitably be a large number of casualties which must be treated where they arise, and the doctors must be there to treat them. There must be first-aid stations in the danger zones and they at all events must be in some bomb-proof place. Reducing it to an economic argument he pointed out that there is a limited number of medical experts available. They are valuable citizens, more valuable prospectively in the possible event of war than they are today; and the replacements are limited. Lord Horder expressed a hope that the Minister of Health would shortly say to his colleagues in the Government, "Be the policy long or be it short, I must have my doctors and their work underground in the danger areas, and therefore let me begin forthwith to prepare for this necessity." His argument was taken up by others who spoke after him, and led to an assurance from Lord Birkenhead on behalf of the Government that the possibilities of underground dressing-stations were under the consideration of the Minister of Health.

On the larger issue of deep shelters for all dangerous areas Lord Birkenhead spoke of the risk of their becoming death-traps on a gigantic scale; the penetrating power of bombs might increase and the provision of shelters suitable at the present time would be an irrevocable commitment which to him would be an enormous gamble. On the other side are the 300 doctors practising psychological medicine, including 60 medical superintendents of mental hospitals, who avowed, in the newspapers of Feb. 8, that deep air-raid shelters are essential to avoid national anxiety. The peace of mind and reassurance so achieved would be increased by the realisation that the Government had done everything possible for the nation's safety, and this in turn would improve morale and foster the sense of unity so valuable in warding off panic.

1. *Brit. med. J.* 1938, **2**, 1350; Jan. 28, 1939, p. 198; Feb. 11, p. 312.

DIRECTORSHIP OF WATER EXAMINATION, M.W.B.

Lieut.-Colonel E. F. W. Mackenzie, R.A.M.C., has been appointed director of water examination to the Metropolitan Water Board. His appointment coincides with the issue of the Board's 32nd annual report on the London water-supply, noticed on page 474. This report was written by Lieut.-Colonel C. H. H. Harold before his untimely death last July, and gives an idea of the heritage into which Colonel Mackenzie has now come. Various circumstances have conspired to enhance the importance and prestige of the M.W.B., which now supplies some 7,850,000 persons with water safeguarded by the examination department; safety has been put first, but that has not prevented the imagination of Houston and Harold from devising long-term policies based on biological research. Colonel Mackenzie's appointment is the natural outcome of the opportunities he has had for research as an officer of the R.A.M.C. in several parts of the British Commonwealth. For the last three years, as assistant commandant of the Army School of Hygiene at Aldershot, he has been responsible for the routine examination of the military water-supplies and has himself investigated the reaction of various intestinal pathogens to chlorine and its compounds. Recently he has devised a method for purifying water in the field in a shorter time than is possible by the ammonia-chlorine process. Like his predecessor, Colonel Mackenzie gained experience of water problems in India where he was first responsible for the water-supply of Bombay, then detailed to make a survey of available water-supplies in the Poona-Sholapur district, and later as officer in charge of the water-supplies of the whole of Northern India. His chemical survey of the waters of the Punjab and of the relative efficiencies of chlorine and chloramine in many different types of water procured for him the award of the Parkes memorial medal and prize. It only remains to say that Colonel Mackenzie is a New Zealander, educated at Wellington College and later at Edinburgh University.

TUMBLING IN THE HAY

Dr. Gogarty's latest book[1] is an antidote as well as a work of art. It is an antidote to the idea that big efficient countries are better than small ones, and London more important than Dublin. It is an antidote to gloom, to pomposity, and to everything that is flat, dull and feeble. The dose is almost overwhelming; for if Gogarty's phrases are beautiful as only a careful craftsman can make them, his ideas are poured out with the carelessness of a poet who has vast reserves of wit and learning and gaiety. All these, and the resources of memory, he has used in depicting the life of the Irish medical student forty years ago; and any who survived that alarming experience will, one imagines, be charmed at meeting

1. Tumbling in the Hay. By Oliver St. John Gogarty London: Constable and Co. Pp. 325. 10*s*. 6*d*.

their youth again. For the rest of us Dr. Gogarty opens a window on to a small but very remarkable world; and after a little time spent in learning to see it with his eyes we find it quite natural to be alternating rapidly from very low to very high life—to be prescribing for the flatulence of publicans or taking wine in wonderful company at Trinity. Even apart from the drinks, tumbling in the hay was the most liberal of educations.

A HUNDRED BROKEN NOSES

IN his account of 100 nasal injuries Gerrie[1] of Montreal records that 83 of the patients were males, and that sports accounted for 23 cases, of which 19 were due to ice-hockey and baseball. Almost all nasal fractures are impacted, and Gerrie divides them broadly into two types. The commoner of the two, seen in 85 patients, he calls the lateral-impaction fracture. In this type the blow is received on the side of the nose and produces four lines of fracture, of which one is horizontal, towards the junction of the nose with the forehead, and three are vertical, one being near the middle line and two lateral. Thus two loose fragments are formed roughly corresponding with the two nasal bones; the fragment on the side away from the impact is driven outwards, and that on the side of the impact is forced inwards and impacted under the other. The nose assumes a characteristic zigzag appearance with a flat horizontal slope on the side of the impact and a more vertical steep slope on the other side. There is, strangely enough, but little swelling, although digital examination may elicit abnormal mobility and crepitus. The second type, which Gerrie calls the vertical-impaction or depressed fracture, is usually the result of a terrific head-on smash: the nose is "bashed" in and the bones fragmented and impacted in a variety of positions. Damage to the soft tissues and bones is severe, and swelling quickly appears and masks the underlying deformity. Both types are usually compound internally, and the septum may assume any position.

Radiography helps to assess the damage; the routine at the Montreal General Hospital is to take a lateral film and a vertical exposure from above with the film held in the mouth. As time elapses it becomes increasingly difficult to replace the fragments, and this is therefore done as soon as possible regardless of swelling or laceration. Gerrie favours general anæsthesia, and finds that two hæmostat forceps with the tips wrapped in cotton-wool are satisfactory instruments for reduction, one being placed in each nostril under the nasal crest. Reduction of the lateral-impaction type may be difficult, but it is essential that the fragments should be disimpacted. The hæmostat in the nostril away from the side of impact is used vigorously to raise the overriding fragment, while that in the other nostril lifts the depressed fragment outwards. With the same hæmostats, or the blade of a duck-bill forceps, it is often possible to adjust the torn or dislocated septum so as to make a subsequent submucous resection unnecessary. Gerrie believes that an internal splint is indicated to provide support for the first few days and strongly advocates a modification of the rubber-covered silver-wire splint described by Watson-Williams[2] in 1931. He now uses an eighteen-inch length of 19-gauge brass spring wire bandaged round with a strip of raw latex rubber called Sterilastic, but he says that if this is unobtainable a no. 8 French catheter slipped over the wire is even more convenient though slightly more bulky. The middle inch of this wire lies against the philtrum of the upper lip; the wire on each side of this is bent so as to run first along the floor of the nose, then forwards and upwards to the bridge, and finally down along the under surface of the bridge to the nostril. Thus there is a triangle of wire in each nostril, the anterior limb of which supports the nasal bridge; it is introduced in a collapsed position, expanded inside the nose, and the two ends of the wire are then fixed by fine binding to the central portion on the philtrum. He considers such a splint indispensable in the vertical-impaction fracture and reassuring and often helpful in the lateral-impaction type. He also favours an external splint of dental impression compound over a gauze dressing, but this is of far less importance.

1. Gerrie, L. W., *Canad. med. Ass. J.* 1938, **39**, 433.
2. Watson-Williams, E., *Brit. med. J.* 1931, **2**, 791.

LENDING OUR EARS

A CORRESPONDENT has been struck by Mr. Walter Elliot's intention to earmark doctors for this and that. "Is it possible," he asks, "that he thinks we are cattle?"—and he doubts whether this is the way to secure the coöperation of an individualistic profession. Mr. Elliot has since written to him courteously agreeing that the phrase was not happily chosen, and no doubt the profession will in time recover from the shock of the metaphor. Nowadays indeed not even the possession of ears is essential for the earmarkee, for we are but taking our turn with lorries and Green Line buses. We can console ourselves moreover with Mr. Elliot's expressed willingness to allow doctors the privilege, denied to dumb animals and mere machinery, of choosing our brand.

Lady PHILIP, who married the late Sir Robert Philip early in 1938, died in Edinburgh on Monday. She was the daughter of Joseph McGaw of Kooba, New South Wales, and a life-long worker in the anti-tuberculosis campaign. In 1909 she founded the Paddington tuberculosis dispensary, of which she was hon. treasurer.

The fifth biennial conference, organised by the British Empire Cancer Campaign, will be held on Tuesday and Wednesday, March 14 and 15, at the Royal Society of Medicine. Application for cards of admission should be made to Mr. W. H. Ogilvie or Dr. R. W. Scarff, joint hon. secretaries of the organising committee of the campaign, at 11, Grosvenor Crescent, London, S.W.1.

In arranging for the admission of a child to the Evelina Hospital last Sunday the Emergency Bed Service for London brought the total of applications it has received to 5000. The service was started last June and it had dealt with about 3000 cases up to the end of 1938. This year calls have been more frequent, partly no doubt because medical emergencies are most common at this season, but also because London doctors are now realising the amount of labour saved by using the service to the full.

The British Association of Radiologists and the Society of Radiotherapists of Great Britain and Ireland have decided to amalgamate under the title of the Faculty of Radiologists. The work of the faculty will be carried on at the old office of the association, 32, Welbeck Street, London, W.1.

The medical department of the Board of Education is now at Alexandra House, Kingsway, London, W.C.2. Telephone: Temple Bar 8020; telegraphic address: Meducation, Estrand, London.

CONTROL OF THE COMMON FEVERS

RHEUMATIC FEVER

Reviewed by DR. J. ALISON GLOVER, O.B.E., *Senior Medical Officer of the Board of Education*

RHEUMATIC fever (acute rheumatism) is a specific infectious disease probably conveyed by droplet infection, but its *infectivity* is of a low order, comparable with that of cerebrospinal fever or pneumonia. As in these diseases, cases usually are sporadic, but, even in these sporadic cases familial investigations suggest that the disease is communicable. In certain circumstances favourable to the disease its incidence is that of an epidemic infectious disease justifying the claim, made many years ago by Hirsch (1881), that rheumatic fever "deserves an assured place among the acute infective diseases."

Attack affords *no immunity:* the liability, particularly of children, to progressively severe recurrences is of paramount importance in the consideration of control.

Incubation.—In a large proportion of cases an attack of tonsillitis precedes the onset of rheumatic fever, usually by some fourteen days. In such cases it may be said that there is a double incubation period: first, the two to three days' incubation period of the initial tonsillitis ("precursor fever" of Bradley), and then the "silent" or "lag" period, usually of fourteen days, between the tonsillitis and the onset (or recurrence) of rheumatic fever, which can be demonstrated in the incidence chart of an epidemic as well as in the clinical chart of the patient. The initial tonsillitis is, however, sometimes mild or unnoticed.

Age-distribution and sex-incidence.—Females are more susceptible than males. Under modern conditions in this country the disease seems to be changing its character and to be increasingly a disease of children between 5 and 14 years. Comparatively rare (though very serious) before the age of 5, the peak of incidence is reached at 8 years of age. Incidence continues high until 12 and then falls rapidly at puberty. In certain circumstances epidemics of the disease occur among adolescents.

Social incidence.—No disease has a more clearly defined "social incidence" than acute rheumatism, which falls twenty to thirty times as frequently upon the poorer children of the industrial town as upon the children of the well-to-do. Its incidence increases directly with malnutrition, overcrowding and bad housing, especially in urban conditions.

Seasonal incidence.—There are two maxima, one, usually the larger, in November, and one in January–February. It is significant that Close (1930) found that the incidence of tonsillitis reached its maximum in October–November.

Mortality.—The crude annual death-rate from rheumatic fever has declined from 67 per million persons in 1901 to 22 per million in 1937, by far the lowest ever recorded. The previous lowest years were 1932 and 1936, when the rate was 28 per million. But it is, of course, in the after-effects—the permanent heart damage, lifelong disability and premature death—which may result from it, rather than in the low immediate mortality, that the importance of rheumatic fever lies. The disease has a strong claim on the school medical service, for in the second half of school life, the period between 10 and 15 years, is the peak of its greatest mortality. Fig. 1 shows its importance as a cause of death at this age-period in 1937. Since, however, the total mortality from all diseases during the age-period 10–14 years is low, the actual number of deaths represented by the percentages shown in fig. 1 is comparatively small. During 1937, in the first half of primary school life—i.e., from 5–9 years—rheumatic fever accounted for 2·3 per cent. and heart diseases for 3·5 per cent. of all deaths. The mortality due to rheumatic fever in the age-period 5–9 years is therefore relatively small compared,

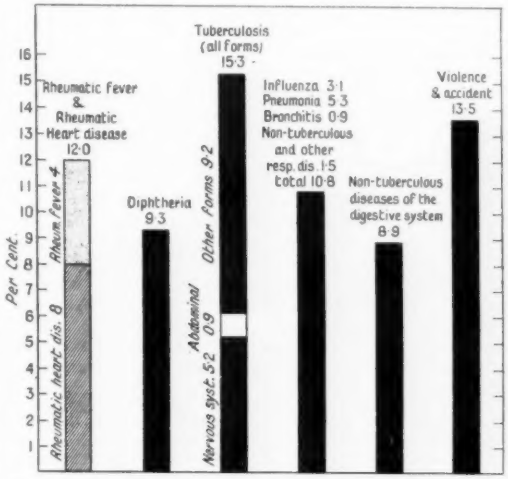

FIG. 1—Mortality from rheumatic fever and rheumatic carditis in the five-year age-period 10–14 years, compared with that of diphtheria, tuberculosis, pneumonia and other (non-tuberculous) respiratory diseases, diseases of the digestive system, and violence. The columns show the respective percentages of deaths from all causes during this age-period. The deaths from rheumatic heart disease are estimated on the assumption that one-tenth of the total deaths from heart disease during this age-period are due to congenital heart disease and the rest to rheumatic heart disease. The figures are taken from "The Health of the School-Child," 1937.

for example, with diphtheria, which, in 1937, a year of high diphtheria prevalence, caused 24 per cent. of all deaths in children of this age-group.

The *cause* of rheumatic fever is still uncertain; although recent work [1] on the relationship of infection by *Streptococcus pyogenes* to rheumatic fever has greatly strengthened the theory, first stated by Poynton and Paine (1900), that the causal agent is a streptococcus, yet the possibility that the primary cause is a virus, and that infection by *S. pyogenes*, though essential, is but secondary in ætiological significance, cannot be ruled out. For practical purposes, however, and in the present state of knowledge, measures of control are best based upon the view that rheumatic fever is one of the many results of infection by *S. pyogenes*. Epidemiologically this view is supported (Galabin 1902, Longstaff 1904) by resemblances, now observed over 80 years, between the trend and oscillations of the mortality from rheumatic fever and those of other streptococcal diseases, scarlet fever, erysipelas, septicæmia, and puerperal fever.

1. Especially that of Griffith (1926–35), Collis (1931), Sheldon (1931), Bradley (1932), Schlesinger (1930), and Todd (1932) in this country and of Coburn (1931) and Coburn and Pauli (1932) in the United States.

Atwater (1927) writes: "Rheumatic fever appears to be related to the family of streptococcal infections, because of bacteriological indications, clinical resemblances, and epidemiological kinships."

PROBLEM OF CONTROL

The factors favouring the incidence of rheumatic fever which it must be our aim to control are, first, those which facilitate the transmission of infection with *S. pyogenes*, such as overcrowding, close contact (as by sleeping in the same bed), defective ventilation, humidity, and catarrhal diseases, such as influenza or measles, which vastly increase the spraying capacity of any carrier. These factors lead to a high carrier-rate of *S. pyogenes*, and a high attack-rate of tonsillitis. In short, they result in a high potential of streptococcal infection which ensures massive dosage, for a high carrier-rate indicates not only more carriers numerically but also a high proportion of dangerous, heavily infected, or "pure-plate" carriers, and usually the prevalence of one epidemic serological type of streptococcus.[2]

Secondly come factors which lower the immunity of the individual. These include rheumatic heredity, insufficient food, the lack of protective foods, especially milk and those containing vitamins A and C, dampness of house or site, chill, fatigue, antecedent disease, and recent arrival in a large community. In the closed or semi-closed community the paramount factors of this kind are overcrowding and a rapid and continuous influx of newcomers. When, as in a hospital school of recovery for rheumatic children, the community consists largely of persons whose immunity has already been lowered by previous attack, the danger of an epidemic of recurrences of rheumatic fever resulting from the spread of streptococcal infection is enhanced.

2. Some of Griffith's (1926) serological types—e.g., type 13—of *S. pyogenes* seem more apt than others to provoke rheumatic fever.

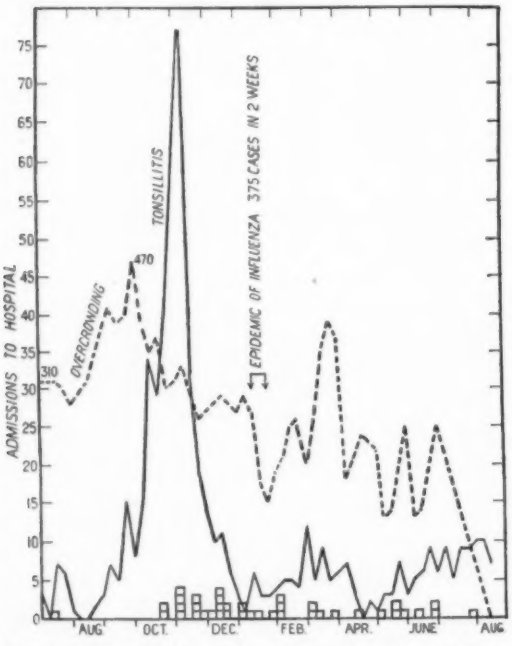

FIG. 2—Epidemic of acute rheumatism, 1926–27. Columns represent admissions to hospital for acute rheumatism (1 square = 1 case). Continuous line = admissions for tonsillitis. Interrupted line = overcrowding. (Base line = authorised complement. Scale = 10 times that for admissions to hospital.) Population was about 2000 boys, all 16 years of age. Note that the overcrowding crest precedes the tonsillitis crest, which in turn precedes the crest of the acute rheumatism curve.

On consideration of the above factors the prevention of rheumatic fever is perhaps best presented from three aspects: (*a*) epidemics in semi-closed communities; (*b*) sporadic cases in children or young adults living at home; and (*c*) recurrences in rheumatic wards or hospital schools of recovery.

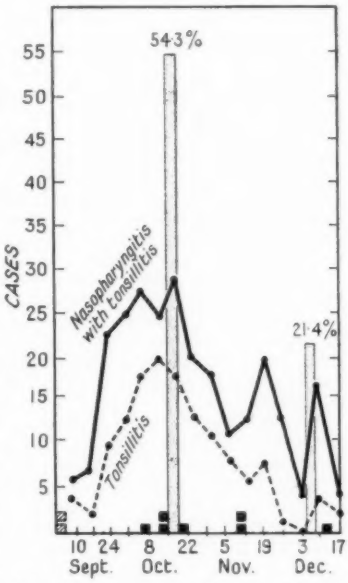

FIG. 3—A small epidemic of acute rheumatism in a residential school with about 775 boarders, sleeping in nine large dormitories. Weekly incidence of admissions to school sanatorium. Continuous line = total weekly admissions for nasopharyngitis (including tonsillitis). Dotted line = weekly admissions for tonsillitis. Each black square equals one case of acute rheumatism, while each shaded square equals one case of chorea. Columns represent percentage of healthy boarders carrying *S. pyogenes* on Oct. 19 and Dec. 7 in samples of 105 and 112 respectively (Lovell et al. 1934).

(*a*) *Epidemics.*—Although the number of cases of rheumatic fever which occur in epidemics is insignificant compared with the number of sporadic cases, I shall first consider the former, because, as in other infectious diseases in which the number of immunes is high compared with that of susceptibles, the ætiology of acute rheumatism is best discerned in epidemics; in rheumatic fever, as in cerebrospinal fever, more is to be learnt from an epidemic of a dozen cases than from a hundred apparently sporadic cases. Moreover, in view of the outbreaks recently experienced in training establishments of the fighting services, these epidemics have a topical interest.

Many observers have described small outbreaks of rheumatic fever in semi-closed communities of various kinds. In previous papers (Glover 1930, 1934, Glover and Griffith 1931) I have described six. From these I have selected two incidence diagrams, the first shown in fig. 2, because it seems to resemble some which have recently occurred; the second, shown in fig. 3, because by a fortunate coincidence the carrier-rate of *S. pyogenes* among healthy pupils during the outbreak was twice ascertained by Lovell and his colleagues (1934). The diagrams speak for themselves, but full details can be seen in the original papers.

The sequence in such outbreaks is usually as follows:

(1) Overcrowding, usually with a rapid flow of newcomers.

(2) The rise of the carrier-rate of *S. pyogenes* to a high percentage (40–50 per cent.) and the concomitant great predominance of one serological type, the so-called "epidemic strain"; this constitutes the "carrier epidemic."

(3) The tonsillitis (or "case") epidemic.

(4) The occurrence of cases of rheumatic fever. These at worst seldom number a tenth of the cases of tonsillitis.

In only very few of these outbreaks has any bacteriological evidence been obtained by the swabbing of the throats of large samples of healthy members of the closed community involved; hence the "carrier epidemic" is mainly hypothetical, but I have little doubt that, if such samples could be taken, the phenomenon of a "warning rise" of the carrier-rate of *S. pyogenes* would be detected and resemble that of the meningococcus, which occurs before outbreaks of cerebrospinal fever (*Spec. Rep. Ser. med. Res. Coun., Lond.* 1920, No. 50, p. 140). In certain circumstances, such as an extensive measles epidemic or a mixed epidemic of measles and influenza, a high carrier-rate of streptococcus may arise with comparatively little overcrowding.

To avoid or control such outbreaks the first essential is to reduce the carrier-rate by spacing out, improved ventilation, and the prompt isolation of patients with tonsillitis. Convalescence from tonsillitis should be carefully watched. The course of training should be so graduated as to enable the newcomers to become acclimatised without excessive fatigue. An ample ration of pasteurised milk and fresh fruit should be supplied for them. The sterilisation of table-ware seems desirable. Mass tonsillectomy—i.e., a high proportion of tonsillectomised pupils—does not seem to diminish the liability of a school to epidemics of throat infection by *S. pyogenes* or their sequelæ.

(*b*) *Sporadic cases in children.*—The responsibility for the prevention of sporadic cases in children is shared by practitioner, public-health authority, and education authority. The provision of proper, uncrowded, and damp-free housing, the relief of poverty, and the provision of supplementary feeding for necessitous subnormal children are important prophylactic duties allocated by statute. The provision in schools of proper facilities for drying outdoor clothes and for changing wet shoes is an important prophylactic measure often neglected. The hygienic conditions, heating, and ventilation in schools are also of importance. Apart from these, the prevention and control of rheumatic fever and rheumatic carditis (for the two are inseparable) in children demands (1) prompt ascertainment of suspected cases; (2) accurate diagnosis; (3) inpatient hospital accommodation for the acute stage available without delay; (4) prolonged and special convalescence; (5) after-care for those children who have resumed normal life; and (6) provision for children who, although they have recovered from the rheumatic affection, have hearts which have been permanently damaged. This may be chiefly in the form of special day schools for physical defectives, where cardiac and other types of cripples can be educated together. Residential accommodation for the worst cases of permanent carditis is also required.

(1) *Early ascertainment.*—Close coöperation between practitioners, hospital physicians, the school medical service, and the public-health authority is essential. Compulsory notification, which has been tried by some local authorities, seems to add little to ascertainment, though it may have other advantages. If the medical profession of the area know that inpatient treatment of the proper kind is readily available for rheumatic children, ascertainment will probably be as prompt and as complete as when notification is compulsory.

(2) *Diagnosis.*—Although no disease is more easily identifiable than typical rheumatic fever, the diagnosis of its more insidious forms may present great difficulty to any medical man. In such cases or in cases of suspected carditis the rheumatism clinic offers the opportunity of consultation and often the advantages of radiographic and cardiographic evidence. Its chief function is diagnosis. Three cardinal points must be settled in each case referred to it. Is the case one of rheumatism? Is the infection active? Is there carditis? But, to be effective, beyond its diagnostic function, the rheumatism clinic must, when it does not itself treat cases, be able to arrange for the prompt and appropriate treatment to be carried out.

Other duties of the rheumatism clinic include the continuous supervision of rheumatic children after treatment to guard against either relapse or insidious progress of the carditis; the investigation of the ætiology of the disease; and the education of the parents. Such clinics encroach neither on the sphere of the private practitioner nor on that of the hospital but, besides giving opportunities for consultation in particularly difficult cases, provide supervision of many children who might not in the ordinary way see any doctor before irreparable damage had been done.

(3) *Inpatient hospital accommodation.*—The treatment of the acute stage lies outside the scope of preventive medicine.

(4) *Prolonged and special convalescence.*—The patient should be transferred from hospital to an institution for specially regulated convalescence, where prolonged recumbency in the best sanatorium conditions, carefully graduated resumption of activity, appropriate education, and vigilant guard against the risk of infection are provided. The practitioner's second difficulty, sometimes shared by the rheumatism clinic, is the persuasion necessary to ensure the prolonged convalescent treatment required for the prevention of carditis. This demands great sacrifices from all concerned: from the parent, who must part with his child for many months, and from the patient, who has first to endure a long period of irksome recumbency and then one of restricted activity. For both health and education authorities this form of treatment is expensive, since it entails an average stay of six months in residential accommodation. But these sacrifices are justified by their complete success in a large proportion of cases—76·3 per cent. (London County Council 1937) and 81·7 per cent. (Schlesinger 1938). In London, where this treatment has been most fully provided, the continuous reduction in the percentage of children found with heart disease corresponds with the increase in preventive measures. As Schlesinger (1938) has said: "It is worth tackling with all the forces at our disposal," and "There will be disappointments, but the successes will more than counterbalance these."

Two things are essential for successful convalescence: rest (with graduated resumption of activity) and prevention of relapse, by the prevention of reinfection with *S. pyogenes*, which might reactivate the rheumatism, and by increasing the general resistance of the patient by diet and open-air regime. We have no specific treatment which influences the course of carditis; we can only rely on the healing power which nature will exert if we allow the heart a minimal activity. This is no easy matter, for the ever-beating heart can only rest in the brief intervals between its beats; yet by prolonged and complete recumbency three things which tend to rest the never-resting heart are accomplished: the number of beats is diminished, the rest interval between them is increased, and the hydrostatic resistance against which the heart has to pump is greatly lessened.

The difficulty of providing this treatment, so vitally important to the recovery of the rheumatic heart, in the child's own home has been graphically described by Smith (1927). In the home of the less well-to-do child it is impossible. In the ordinary convalescent home it cannot be obtained, for there the non-rheumatic children speedily become so lively in open-air conditions that the rheumatic child placed in their company finds his enforced recumbency still more irksome.

After the acute stage has passed, and even before any physical activity has been resumed, appropriate education becomes an invaluable form of occupational therapy. Thus the treatment is best given in the special rheumatic school of recovery. Experience suggests that the provision of 1·5–2 beds per 1000 of elementary school-children is desirable.

(c) *Recurrences.*—A second attack is a more serious danger than a first, and a third attack more dangerous than a second. Thus the prevention of relapse is of the utmost importance. Relapse is almost invariably due to reinfection by *S. pyogenes*. Carriers of this organism are so common that exposure to infection cannot be altogether avoided, and the chances of this happening can only be reduced. The problem in the rheumatic hospital school is to house a community of children who are peculiar in that nearly all are already sensitised to streptococcal infection and simultaneously to guard against their reinfection, which might precipitate relapse and so undo all the benefit done by months of treatment, and, indeed, might have even more disastrous results. The danger of reinfection is very real, and the work of several institutions has been marred in the past by epidemics of relapses of acute rheumatism and subsequent carditis. It is therefore the duty of any health or education authority, setting out to provide special accommodation for rheumatic children, to realise that the risk of such reinfection must be reduced to the lowest possible limits. Thus, in planning accommodation for these sensitised rheumatic children, space and ventilation are of the utmost importance and should be combined with ample facilities for the immediate isolation of any child with respiratory infection. A close watch for carriers of *S. pyogenes*, whether among children or staff, must be maintained, special attention being given to clinical inspection as well as to bacteriological examination. The milk-supply should be pasteurised. A rheumatic child should never be sent to a scarlet-fever ward and, during a measles or influenza epidemic, should if possible always be nursed in a separate cubicle. The prime necessity of avoiding any risk of the spread of streptococcal infection in these special wards demands a higher standard of floor space and inter-bed interval than that required for the ordinary residential open-air school. Open-air wards with at least 80 sq. ft. per bed and 4½ ft. interval between the edges of adjacent beds should be provided.

FAMILIAL INFECTION

The familial incidence of rheumatic fever has long been recognised, but the relative importance of diathesis, environment, and infection is disputed. St. Lawrence (1922) showed that the incidence of multiple cases of rheumatic fever in a group of families was as high as that of tuberculosis. Paul and Salinger (1931), studying 15 rheumatic families, found that "non-specific" respiratory infections preceded the appearance of characteristic acute rheumatism, and that both primary attacks and recurrences in some members of the family have often occurred simultaneously with acute rheumatism and frequently at the same time as sore-throat, bronchitis, bronchopneumonia, and skin rashes in other members. Swift (1931) gives two excellent examples of similar family infections. He quotes a case in which the mother of a rheumatic child frequently had a sore throat a short time before the appearance of a relapse in the child. After tonsillectomy the mother's attacks of sore-throat ceased, and the child then became free from recurrences of rheumatism.

Contact examination, a well-recognised procedure in the prevention of tuberculosis, has been neglected in the prevention of acute rheumatism. The clinical examination of the throats of the contacts in the home and the investigation of their throat flora might help to prevent some cases of recurrence where a child who has recovered from acute rheumatism is in contact at home with a chronic carrier of *S. pyogenes* or with a person suffering from streptococcal otorrhœa.

DRUGS IN PROPHYLAXIS

The specific action of salicylates on the arthritis, pain, and fever of rheumatic fever is not accompanied by any specific action on the carditis. Nevertheless, Schlesinger (1930) has produced strong evidence of the prevention cf relapses of acute rheumatism in children who have already had one or more attacks by giving aspirin in substantial doses throughout the quiescent interval which follows tonsillitis. In the last year or two the great advance made in the treatment of infections due to *S. pyogenes* by substances of the sulphonamide group suggests that the use of these preparations for tonsillitis may provide a new prophylaxis against rheumatic fever. Cleminson (1939) has recently drawn the attention of school medical officers to the possibility of using M. & B. 693 as a prophylactic against otitis media. It is conceivable that such prophylactic treatment might also avert the risk of rheumatic fever following tonsillitis. Thomas and France (1939) gave sulphanilamide continuously through two winters (15–20 grains daily for seven months without ill effects) to 30 patients with a recent history of acute rheumatic fever. None had a major attack of acute rheumatic fever or an acute β-hæmolytic streptococcal infection while taking sulphanilamide. Of 30 control patients 4 developed five major attacks of rheumatic fever during the same period, 1 was admitted to hospital with an acute streptococcal infection, and 3 had acute illnesses which might have been of a rheumatic character.

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THE AIR-RAID

A series of articles on medical organisation and surgical practice in air attack by
P. H. MITCHINER, C.B.E., T.D., F.R.C.S., *and* E. M. COWELL, D.S.O., T.D., F.R.C.S.

VIII—ABDOMINAL AND PELVIC INJURIES

Wounds of the Abdomen

ALL *penetrating wounds* of the abdominal wall, upper part of the thigh, buttocks, loins, and lower thoracic region, however minute, must be carefully excised and explored to ascertain whether the peritoneal cavity has been entered. If it has, laparotomy must be performed in every case to find out whether the abdominal contents have been damaged and to make any necessary repairs. If the upper part of the abdomen is involved, the diaphragm must be carefully explored visually and digitally to ascertain whether a missile has passed through this structure into the thorax. In abdomino-thoracic wounds it will probably be necessary to open up and explore both the abdomen and the thorax.

Lacerating wounds of the abdominal wall, when caused by bombs, are often very extensive, and the patient may be completely or partially eviscerated and is often dead or beyond surgical aid. No time should be wasted on such cases in a casualty hospital, unless there is a good chance of recovery. In all other cases prompt and thorough operation must be undertaken, and if there is a great rush of cases it may be better for patients with these abdominal wounds to be evacuated directly to a nearby base hospital or transferred to another casualty hospital where they can be operated on promptly, for in these cases minutes mean lives. Death results from hæmorrhage or peritonitis, as was shown by Sir Cuthbert Wallace in the war 1914–18, when out of 1288 cases 250 patients (about 1 in 5) were dying on admission, and of the 965 operated on 46 per cent. recovered, and of those with wounds of the hollow viscera only 35 per cent. recovered; hence peritonitis is apparently more fatal than hæmorrhage.

DIAGNOSIS

Great difficulty is usually experienced in diagnosing the condition of patients with abdominal wounds on arrival at the casualty hospital, because they are already under the influence of morphine, which has been administered at the dressing-station to enable them to stand transport, and in many cases it is advisable therefore that these patients should be placed in a special ward and watched for a short while before operation is decided upon, but this waiting and watching must not be delayed more than one or two hours, for, as Sir Cuthbert Wallace so wisely remarks, "It is safer to look and see than to wait and see" in abdominal wounds. It must be realised that in some non-penetrating wounds, especially those caused by "blast" or crush accidents, considerable damage to underlying abdominal and thoracic viscera may have been inflicted, and a careful look-out must be kept for such cases in the receiving-room of every clearing hospital. Similarly, a missile can enter the peritoneal cavity without inflicting any damage to the viscera, but this is rare, and such a contingency must never be relied on as an excuse for not performing a routine laparotomy.

The clinical signs of intra-abdominal damage are very varied. A wound will be present, but it may escape notice, especially if situated elsewhere than in the abdominal parietes. We recollect a case in which a patient was obviously suffering from intra-abdominal hæmorrhage, found on operation to be due to rupture of the spleen by a rifle bullet which had entered behind the left shoulder, passed outside the ribs, gone through the abdomen, and come out beside the anus. No hollow viscera had been damaged, and the wounds of entry and exit of the bullet were so minute that neither of them was detected before the operation. *Rigidity*, if present, is a valuable sign, but a badly shocked patient will probably have a completely lax abdomen. *Immobility of the abdominal wall* on breathing is often present in these cases. *Deep tenderness* strongly suggests internal hæmorrhage and, if associated with a rapid weak pulse or with restlessness, should always lead to exploration of the abdomen. Abdominal pain, hyperæsthesia, and local or general immobility of the abdomen suggest early peritonitis due to perforation of the bowel. Another valuable sign of this is the desire of the patient to use a bedpan and his failure to produce a visible result, although he is convinced that the bowels have been opened; and so they have been—into the peritoneal cavity. Vomiting may be due to one of many causes and is by no means a sure sign of abdominal injury. It is wise to radiograph these patients if it is thought that a retained missile is present, for its position may indicate what viscera are likely to have been damaged; but no time should be wasted to secure this examination, which is not so essential as a rapid laparotomy. Occasionally a tag of omentum or even a coil of bowel may be found prolapsed from a perforating wound. They are commonly seen in lacerating wounds that open the peritoneal cavity. Their presence establishes the diagnosis, and they should never be returned to the abdomen before the patient is on the operating table and the wound is being properly dealt with. As a first-aid measure, such protrusions should be covered with a moist dressing of sterile saline. Signs of internal hæmorrhage are often present and consist in general signs of collapse, but in these cases the patient is deadly white, seldom sweats, and is very restless, with gasping respiration (air-hunger), all four points indicating hæmorrhage rather than shock. Locally, the abdomen, which may be moving slowly on respiration, is very distended and tympanitic on percussion (in contradistinction to the superficial hyperæsthesia met with in inflammations).

TREATMENT

Since these patients are often very collapsed, it may be advisable to treat them preoperatively for shock. Fluids are especially useful in this respect but must never be given by mouth if perforation of the gut is suspected. In such cases an injection of saline per rectum or of gum saline intravenously or a blood-transfusion should be given immediately before operation, except in internal hæmorrhage, in which operation and transfusion should be begun simultaneously.

Operation.—The first step must be exploration of the wound of entry and excision of the track; lacerating wounds must be excised and foreign bodies removed. If the wound has not penetrated the peritoneal cavity and the surgeon is satisfied that no intraperitoneal damage has been caused by the force of impact of the projectile, the wound is closed or dressed and the patient removed to the observation ward, where he should stay a few days. Laparotomy must be performed in every case in which the abdomen has been perforated.

If the wound of entry is situated in the anterior abdominal wall, it is well to include this if possible in the laparotomy incision, for the damaged edges of peritoneum can often be excised freely, but in wounds of the buttocks or back a separate laparotomy incision must be made. Probably the best incision is a right paramedian, though a transverse incision gives excellent exposure. It is essential that the primary incision be sufficiently long to expose the abdominal contents and to allow of free and thorough exploration. An incision 9–12 in. long should be aimed at, and this can be extended from the ribs to the pubes with impunity. It is far safer for the patient to get a thorough exposure without violent retraction of the wound edges, and this is not always realised by the operating surgeon at the beginning of his military career.

As soon as the abdomen is opened, if the patient is bleeding internally he is liable to collapse, and care should be taken therefore that intravenous transfusion is in progress before this stage of the operation is reached. Speed and teamwork are important. Some surgeons prefer operating without gloves, but we do not advise this procedure, which gives little, if any, increase of speed and gravely dirties the hands of the surgeon in a most undesirable manner. A fæcal odour may be apparent or fæces met with on opening the abdominal cavity. In this event a systematic and methodical search of the entire intestinal tract must be made from the cardiac orifice to the rectum; otherwise small perforations, which are almost always there, may be overlooked, especially in the region of the fixed flexures of the bowel, which are not easy to reach and are very liable to perforation owing to their immobility. Any hæmatoma near these flexures must always be incised and explored to find if perforation has taken place into the retroperitoneal tissues.

Wounds of the *stomach and duodenum* should be sutured as they are met with, but in the *small intestine* it is better to get an idea of the total damage before starting to repair any perforations; otherwise time will often be wasted in repairing small perforations which must subsequently be included in an adjacent resection. The same applies to the *transverse colon* and *pelvic colon*. The intestine must be searched foot by foot systematically. Where no perforation is present, the gut must be returned to the abdomen immediately after it has been examined. Where a perforation is found, the segment of gut should be left outside until the next two or three feet have been searched, when, if no other perforations are found, the perforation, if small, may be invaginated, or resection of the gut followed by end-to-end anastomosis may be performed if the bowel lumen is largely destroyed. The *cæcum*, *colon*, and *rectum* are next examined and wounds in them invaginated and sutured, any retroperitoneal hæmatoma near them being incised and observation kept for a fæcal odour or a tear. While the stomach is being examined, it is advisable to pass a hand above the liver and spleen to ascertain whether the diaphragm has been perforated; and during the examination of the pelvic colon and rectum the bladder, and in women the other pelvic viscera, should be searched for any signs of damage.

A competent surgeon should be able to open the abdomen, thoroughly search the entire intestinal tract, and close the wound within twenty minutes. Minor repairs should take only half an hour, but resection and wounds of fixed hollow viscera take longer. Speed is important for the sake of the patient, but never at the expense of a thorough and systematic search of the intestinal tract. Surgeons who habitually take an hour in the performance of a simple laparotomy are to be discouraged from undertaking abdominal work and would be better employed in wound excision and amputations on three or four patients in the same time.

If there is *internal hæmorrhage* every effort should be made to locate it as quickly as possible and to arrest it temporarily by grasping the blood-vessels or by plugging solid viscera. Blood may be coming from the omentum or mesenteric vessels, in which event simple ligation of both ends of these and repair of any rent in the structure are usually sufficient; but, if the mesenteric vessels have been extensively damaged, it must be ascertained whether the intestine is viable and whether peristalsis is present. If they are not, resection and end-to-end anastomosis will be necessary. Hæmorrhage due to wounds of solid viscera is usually associated with considerable disruption. The spleen or the kidney (if only one is involved) should be removed. In the liver, suture of rents may be attempted after gentle curettage of the track, but usually plugging is necessary. *Retroperitoneal hæmatoma* may be due to blood from the renal pedicle, kidney, vena cava, or iliac veins. If this hæmatoma does not appear to be spreading or connected with a retroperitoneal bowel wound, no attempt should be made to incise it to find the source of the hæmorrhage—often an impossible task—but, if it is obviously spreading rapidly, an incision should be made and a search carried out in the line of the vena cava and iliac vessels for a bleeding rent.

After repair of either perforation or hæmorrhage the abdominal cavity should be gently swabbed out with plugs soaked in warm sterile saline (or a suction apparatus used) and the abdominal wall closed without drainage. We entirely agree with Sir Cuthbert Wallace, who says: "The surgeon who cannot trust the peritoneum has no business to do abdominal surgery." In extensive lacerated wounds closure may be impossible, and in this event the ingenuity of the surgeon may be much taxed to lessen the wound area as far as possible, after which gauze dressings must be firmly bandaged on to prevent herniation; but such patients seldom survive, and, if it is obviously impossible to close the abdominal wall, no undue time should be wasted on operation on these cases during a rush of casualties. When retroperitoneal cellular tissue is infected—e.g., perforated cæcum—the prognosis is grave and drainage essential.

Wounds of the *diaphragm* are often accompanied by pain in the shoulder besides the signs of abdominal injuries. If such a wound is very small, associated injuries in the chest are likely to be slight, and, unless there are very obvious signs to the contrary, no treatment should be given beyond excising the edges of the wound in the diaphragm and closing it with catgut sutures. If the wound is large, every effort should be made to close it, for the relief given to the patient is immediate and great as soon as the pleura is closed off. Before closing the wound it may be possible to ascertain the amount of intrathoracic damage and then to deal with it through the opening in the diaphragm, though this is seldom possible and a subsequent thoracotomy will be necessary in many cases; but this should be postponed till next day unless the chest symptoms are very urgent.

Wounds of the *stomach* cause signs and symptoms very similar to those of a perforated gastric ulcer, but there is also considerable hæmorrhage as a result of damage to the gastric vessels. The wounds are often of considerable extent, and their repair, which must be undertaken as early as possible, is by no

means easy. The edges of the wound should be excised, hæmostasis secured, and the wound closed by a single layer of invaginating sutures, which must pass through the entire thickness of the wall to ensure hæmostasis and the approximation of the peritoneal surfaces. For this and all other intestinal work a continuous suture of the Connell type is to be advocated, for it fulfils both these requirements and saves the extra time necessary for applying a superficial layer of stitches.

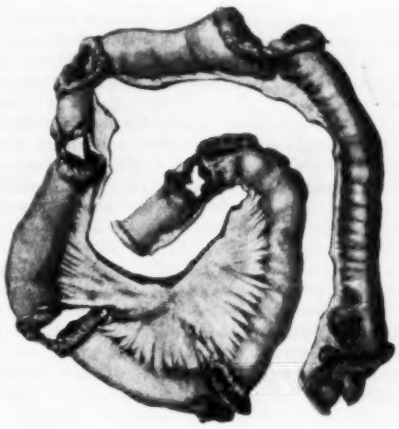
Wounds of the *duodenum* are rare but often fatal. Sutures hold badly in the duodenum, and, if the posterior surface of the second part is involved, it is necessary to mobilise the bowel by an incision through the peritoneum to its outer side, and often the common bile-duct is involved and requires repair. In every case duodenal wounds must be sutured, excision being incompatible with life, and drainage without sutures being invariably fatal.

Wounds of the *small intestine* constitute the majority of abdominal injuries. Early operation gives a better chance of recovery, for after injury the bowel is temporarily paralysed and therefore the escape of fæcal contents is not so frequent as in wounds of the stomach and large intestine, in which there is continuous leakage. These wounds are frequently multiple and, owing to movements of the bowel, may be found out of a direct line of the projectile causing them. In every case the mucosa is everted, and in minute wounds this may close the orifice temporarily.

When destruction of the bowel wall does not extend beyond half its circumference, the wound can be safely closed, for the lumen will not be too greatly narrowed if the suture line is made across the long axis of the gut, but it is wise to examine two or three feet of the bowel next to the first perforation disclosed, for very frequently multiple injuries may necessitate resection (see figure). Repair rather than resection should be done whenever possible, for the chance of recovery is very much greater with repair than with resection, owing to the much greater shock following and the greater damage necessitating this latter procedure; but resection is always necessary when (1) most of the bowel wall has been destroyed; (2) the wounds are so closely approximated that their closure will leave a patchwork of badly nourished tissue liable to slough; and (3) the mesenteric vessels are so extensively damaged that a large loop of bowel is deprived of its blood-supply. Three or four inches of bowel will survive if separated from their mesenteric attachment, but in all cases of damage to the mesentery, especially near its root, care must be taken to ascertain whether peristalsis is conducted over the damaged segment of bowel, and whether after digital pressure its blood-supply is re-established. If neither of these signs is present the bowel should be resected, but it must be realised that the mortality of resection is about double that of repair. Suture can again with advantage be carried out with the single-layer Connell stitch.

Wounds of the *large bowel* are usually jagged tears with bruised edges and, in the case of the ascending and descending colon and rectum, are often extra-peritoneal, in which event laceration is present and in the early stages the rupture of the bowel may not be detected, with the result that cellulitis and even gas gangrene may supervene. Intraperitoneal wounds call for prompt treatment on the lines already advocated for wounds of the small bowel. In retro-peritoneal wounds the bowel should be freed from the hæmatoma by an incision on its outer aspect, the wound carefully closed, and the hæmatoma drained by a counter-incision into the loin or the perineum. In wounds involving the rectum and lower colon it is often advisable to perform a temporary colostomy, especially if bone or bladder is extensively damaged.

Wounds of the *liver* are usually fatal owing to the tendency for a spreading infection to occur, and this tendency is undoubtedly increased by plugging to stop hæmorrhage. All obviously damaged liver tissue should be removed by gentle curettage, and any foreign bodies in the track similarly dealt with, after which, if possible, the track should be obliterated with deep sutures, plugging avoided at all costs (if this is feasible), and the abdomen closed without



Multiple wounds of a coil of small intestine, produced by a single fragment. Those on the antimesenteric border could have been repaired, but there are three others where the bowel is almost completely divided, and the whole coil was therefore resected.

drainage unless a plug is left in situ. Slight jaundice is to be expected for forty-eight hours in these cases, but its persistence after that time, especially if accompanied by epigastric discomfort, drowsiness, and persistent high temperature or rigors, is of grave prognostic significance.

Wounds of the *spleen* and *kidney* call for removal of the damaged organ, but it must never be forgotten that damage to these organs is nearly always accompanied by damage to the adjacent colon, and careful search must be made for such damage, which, if present, must be dealt with after arrest of the hæmorrhage.

Pelvic Injuries

Injuries to the pelvic viscera under war conditions are invariably accompanied by gross damage to the sacrum or the pelvic bones, portions of which are often carried into the viscera and greatly increase the extent of the wound in these. *Compound fractures of the pelvic bones* must be dealt with on the same lines as compound fractures elsewhere, by cleaning, removal of fragments, support of the patient's pelvis with a firm flannel bandage, and bandaging the ankles and knees together. *Fractures of the sacrum* are dealt with in the same way as those of the pelvic bones, but careful examination must be made to ascertain if any nerve has been damaged, in which event immediate suture will be necessary. When, as so often happens, compound fractures of the sacrum are complicated by damage to the rectum, a temporary

colostomy will go far to limit infection with extensive sloughing and often fatal results.

Wounds of the *rectum* have already been dealt with under wounds of the large bowel (see above).

Wounds of the *bladder* are usually both extraperitoneal and intraperitoneal in these cases and must always be sought for in any fracture of the pelvis. *Extraperitoneal rupture* of the bladder *per se* is unlikely to be met with except in simple crush fractures of the pelvis due to the patient being buried by falling masonry. When the bladder is torn at its neck, urine escapes into the pelvic cellular tissues and the cave of Retzius and can often be detected on rectal examination by a boggy sensation in the pelvis. If, as often happens, the triangular ligament is torn, the perineum will be distended, œdematous, and boggy; this swelling will increase if the patient attempts to pass urine; and the passage of a catheter will reveal blood in the urine. Later this extravasation of urine extends to the scrotum, penis, and abdominal wall.

Extravasated urine must be let out and the hole in the bladder closed by operation as soon as possible. Of these two objects the first is the more important, and the second may be impossible. Free incisions, therefore, should be made wherever the extravasation appears. This may be necessary in the perineum but is more commonly required in the suprapubic region. In the latter event the bladder should be opened suprapubically and the wound sutured if possible. The extravasated areas are washed out with warm saline and tubes introduced: one into the bladder to drain it, and several into the areas where the urine has been extravasated. The length of time these tubes remain in will depend on how rapidly the condition settles down and granulations and fibrous tissue form. Drainage is likely to be necessary, however, for at least five or six days. It must be remembered that at times the rupture in the bladder is both extraperitoneal and intraperitoneal.

Intraperitoneal rupture, which is common in these cases, leads to suprapubic pain with inability to pass water, and the passage of a catheter draws off no urine, though often a little blood. If a silver catheter is used, the point can often be passed through the rent in the bladder and felt against the abdominal wall. This condition is often complicated by perforating wounds of the bowel, and, when laparotomy is performed for repair of the wound of the bladder, the intestines must be searched for possible damage. After the bladder wound has been closed, the pelvis should be sponged out, and no drainage of the peritoneum is necessary; but, after the bullet track has been cleaned and any extraperitoneal damage repaired, perineal drainage is generally advisable, usually along the wound track.

AFTER-COMPLICATIONS

Following any of the forementioned injuries, the usual after-complications of any intra-abdominal injury may be met with, but in these cases ileus is particularly likely to develop. These complications should be dealt with on the lines laid down for civil practice; hence their treatment is not given in this article.

AFTER-TREATMENT

After-treatment is on the lines commonly adopted in civil practice, but it must be remembered that these patients are often very collapsed and suffering from shock before operation, and that therefore the ingestion of fluid as soon as possible is of great importance, and they should not be kept from food longer than is absolutely necessary. The only reason for restricting food and drink after these operations on the bowel is the inability of the patient to retain and digest it. As a general rule, the patient can be given fluid by mouth immediately on recovering from the anæsthetic, but the quantity of this should never exceed a medicine-glass full at a time, though this may be repeated at intervals of a few minutes. As regards solid food, the patient's wishes and appetite are usually a safe guide, and certainly most of these patients are far more comfortable and their progress is more satisfactory if they are allowed to eat. A light solid diet can be given after the first forty-eight hours. Soda-water, champagne, and other gaseous drinks are better avoided, for they tend to produce flatulence and discomfort.

In most of these cases an aperient may safely be given at the end of forty-eight hours. If the patient is distended and uncomfortable before that time, a glycerin enema or suppository often gives great relief; if this fails, pituitary (posterior lobe) extract or Doryl 1 c.cm. may be given hypodermically.

MULTIPLE INJURIES

In all cases it must be recollected that wounds of other parts of the body, especially the chest, may be present, and these must be dealt with at the same time as the abdominal injuries if possible, but if the patient is very shocked it is wiser to postpone an extensive chest operation until the next day, provided no great respiratory distress or internal hæmorrhage contra-indicates; and in cases of internal hæmorrhage it must be realised that the depletion of the circulation tends to increase the risk of infection and gangrene in limb wounds.

SCORPION BITE

POISONING by scorpion bite causes symptoms resembling those of bulbar lesions. From this de Magalhaes was led to suggest that the poison does in fact produce such lesions, and E. F. Barros claims to have shown that this is true at least of poisoning by the scorpion *Tityus serrulatus* in Brazil (*Hospital, Janeiro*, August, 1938, p. 317). De Magalhaes, he says, spoke of an "acute syringobulbia" and went on to point out that by attacking the nerve centres in the bulbar region (or its different representatives in the ascending zoological scale) the arthropod can best paralyse its prey before devouring it. The scorpion reaches the bulbar region of its prey through the selective action of its venom, whereas the wasp, sphex, directly stings one of the main nervous centres of the caterpillar which it provides for its young to eat. De Magalhaes is not satisfied (*Ibid*, January, 1939, p. 173) that the effects of a scorpion's bite are due to the bulbotropic toxin alone, for he has observed other actions, notably on the blood (hæmolysis, leucocytolysis, agglutination, inhibition of coagulation, and alteration of viscosity, density, and hæmoglobin percentage), fats, proteins, and the endothelium of blood-vessels, leading to hæmorrhage. He maintains, however, that these actions are subordinated to the neurotoxin, which exerts its influence both peripherally (intense pain, hyperæsthesia, and paræsthesia) and centrally, and that the venom of *T. serrulatus* and *T. bahiensis* is specific for the nerve-endings of pain sensation in the skin but not for the nerve centres of the sympathetic or cerebrospinal nerves. Injected into the skin in quantities insufficient to produce pressure effects it causes intense pain, but there is no pain when it is injected intravenously. Intravenous injection produces immediate peripheral vasoconstriction, but subcutaneous injection is followed by a lag before peripheral vasoconstriction takes place. The poison also has a selective action on the cortical neurones, causing convulsions, disorders of speech, and delirium.

GRAINS AND SCRUPLES

Under this heading appear week by week the unfettered thoughts of doctors in various occupations. Each contributor is responsible for the section for a month; his name can be seen later in the half-yearly index

FROM AUTOLYCUS

IV—BUSMEN'S HOLIDAYS

I ENDED my last article with a somewhat cynical reflection upon the kind of qualification that seems so oddly to have importance in the matter of addresses to medical societies. I proceed to discuss—in a less jaundiced mood I trust—the wholly different affair of medical wanderings in the United States. A Dominion Doctor in these columns has recently deplored the dearth of hospitality available here to visitors from abroad. I do not propose to consider this burning question, but no one who visits the States from this country can have any complaint on this score, for the hospitality he will be offered is generous to a degree and inspired by a thoughtfulness that defies imitation.

* * *

I have visited America on two occasions, for the first time as a newly qualified man wishing to see the American hospital scene, and then some years later as a kind of "loan exhibit" to a medical school where for two months I took charge of an outpatient clinic and gave some lectures and demonstrations. On the first trip I reached New York armed with a small sheaf of letters of introduction. On the morning after my arrival, grasping one of these, I set out for a hospital a member of whose staff I wished to see. At the porter's lodge I named my prospective victim and was told he was not expected for an hour. The porter, a kindly soul, invited me to pass the time by a visit to the public morgue which was conveniently situated a few blocks away. There, he assured me, I should see something that would curl my hair for me. The suggestion certainly had the charm of the unexpected, but I had not come to New York for a permanent wave though I lacked the courage to say so. I departed therefore in the direction indicated and spent the allotted time walking the drab East Side streets. On my return I was greeted by the physician whom I sought and shot my letter at him. I could see the porter, clearly a firm believer in the American doctrine that all men are born equal, itching to ask me about the morgue, so I kept up a running fire of chatter until my guide led me off to the clinical lecture he was about to give. This proved to be an equally embarrassing experience because after almost every statement he appealed to me, whom he had introduced to the class as a distinguished physician from London, for corroboration of his remarks, a function for which my juvenile appearance and obviously terror-stricken mien ill fitted me. It appeared that his ruling passion was for breast-feeding, and the theme of his remarks the generous endowments for this purpose presented by the patient under examination. I was invited to step out in front so that I might take a closer view, and was called upon to endorse his analogy that the twin organs in question were like Derby hats. They were, and I prayed silently that an outsize Derby hat might at that moment descend from Heaven and cover my blushes. None did, and before I could get back to my seat I was forced to palpate the objects of his admiration. Indeed, such was his enthusiasm that for one horrid moment I almost feared I might be asked to sample their wares.

This harrowing experience cured me of my desire to explore American medical science any further. I thereupon tore up my other letters of introduction, committed them to the only source of flowing water available, since there were no fires handy, and made of the rest of my holiday a less earnest affair than had been originally contemplated when I had asked an indulgent parent for the price of the trip.

* * *

My second trip was a horse of quite another colour, and was as near a success as I shall ever achieve. Yet even this had its minor set-backs, mainly gastric owing to my inability to stand up to the magnificent repasts that punctuated my night life, and an incapacity to metabolise the synthetic gin that loomed so toxically in the perpetual cocktails of those dark prohibition ages. Yet there were other transient embarrassments, too. One day while eliciting a history from a patient in the clinic I found great difficulty in understanding his quaint articulation. This led me, rashly enough, to embark on a disquisition about dysarthria. As he caught the drift of my remarks I saw a tense and warning expression dawn on the face of the attendant medical registrar. I edged towards him round the couch, and he towards me. As we met I heard his whisper "That's not dysarthria, that's South Carolina." Most of the audience heard his whisper, too, and the rest of my remarks were drowned in universal laughter. During my stay I planned to spend a week-end with an old friend in a large industrial town in Pennsylvania. I made the journey by night and on stepping from the train with that somewhat exhausted and dishevelled feeling that is part of American night travel I was greeted by the news that I was billed to address the local medical society that night. It turned out to be a very warm evening and the guests in what seemed incredible numbers sat about in their shirt sleeves, their coats hanging over the backs of their chairs, belted and displaying those curiously cut trousers, horizontal at the top edge as though designed to permit of lumbar puncture without further disrobing on the part of the wearer. The president took the chair, chewing and smoking alternately a large and drooping cigar and when it ceased to draw—being waterlogged—he continued to chew, the cigar tip moving rhythmically up and down like a myograph lever as he did so, a sight that fascinated me to such a degree that I could not take my eyes off it. As I gave my address I could see this movement out of the corner of my eye, and with what self-restraint I concealed my exasperation need not be told. Finally, after a veritable orgy of mutual congratulation, I got my release, but I was not yet finished with our president, for as we strolled to his home my host remarked "Our president was very pleased with your address, he spoke of it in very moving terms." "Oh," said I, bridling pleasantly, "what did he say?" "What did he say?" repeated my host, "he said 'that guy's no slouch.'" This particular linguistic construction was new to me, and I meditated upon it as I lay in bed waiting for sleep that night. I finally decided to make a note of it, so that if my career should meet some unforeseen or tragic end before I left the States, it might be incised as an epitaph upon my tombstone.

There are moments in such a tour when a wave of nostalgia passes over the travelling Englishman. I became a martyr to them, but not unexpectedly, and I had brought with me the antidote—namely, Mr. Pepys' Diary and Tristram Shandy. Mr. Pepys had been a delightful acquaintance of mine for years, but ever since he has been a dearly loved friend. Tristram Shandy, too, proved a companionable fellow, and no one should leave these shores for the States on a stay of any length without these two travelling companions. As G. K. Chesterton truly remarked, "there's nothing like travel for narrowing the mind."

* * *

When the time for my return to England was at hand I was reminded that before I should be allowed to embark I should have to show an income-tax receipt for a handsome cheque in dollars I had received from the hospital where I had been working. I duly presented myself at the tax collector's office. This official did his daily good deeds behind a little wooden shuttered window like a railway station ticket office. I thumped on this, and in a few seconds the door shot up and disclosed a choleric individual in shirt sleeves, smoking the inevitable pultaceous cigar. I explained my business, which quite surprisingly failed to cheer him up. This should have warned me not to trifle with the representative of the United States Treasury, but that devil of irresponsibility that has got me into so much trouble drove me to remark as I collected my receipt "I should like you to arrange that this modest sum goes towards settling the British War Debt." The outward signs of an unfinished struggle for appropriate utterance passed over his baffled face as I turned hastily to the door, and passed unregretted from his sight. It was worth the dollars I should have had to pay in any case, but I still wonder whether the people of the United States know the whole truth of the Englishman's efforts to square this little account of the last war.

* * *

Now all this, as I am aware, is not quite the usual account given of medical trips to the United States by returned visitors, but then edification is not my aim, nor to tread the beaten path of travel memoirs. Not least among the valuable things I learned was that a 6B lead pencil makes the best of all skin pencils, is excellent for filling in crossword puzzles, or for writing on the stiff cuff of a boiled shirt. No home should be without one.

This concludes the four articles from Autolycus. Next month A Part-time Professor will be responsible for these columns.—ED. L.

PUBLIC HEALTH

Metropolitan Water

THE thirty-second annual report (for 1937) on the examination of the London water-supply, which has just been issued (London: P. S. King and Son. 10*s*. 6*d*.), was written in draft by Lieut.-Colonel C. H. H. Harold, who died on July 19 of last year, and has been completed by Mr. Denison B. Byles, deputy-director of water examination. In these circumstances one misses the discussion of problems which marked the annual reports of Houston and Harold, but the data are there for readers to study and draw their own conclusions.

The keynote of the report, whether research or routine is considered, is watchfulness; and the need for this is made abundantly clear when it is realised that the polar bear and the eider duck (in their native habitat) appear to be the only animals exonerated as carriers of the *B. coli*. With regard to the sea-gull Houston stated in 1930 ". . . even on the most conservative estimate . . . each gull may per day contribute 50 to 100 million *B. coli* to a waterworks. Most of this filth will reach the water directly or be liable to be washed in with each successive rainfall." At Belfast Adams in 1928 reported the isolation from the droppings of gulls of organisms indistinguishable from *B. typhosus*. The duck, goose and hen are all proven carriers of food-poisoning organisms, as also are pigs and cows. These facts alone render watchfulness imperative.

The fact that the recent epidemic of typhoid fever at Croydon was traced to contaminated well water led to increased vigilance over the Board's well supplies. The frequency of sampling was greatly increased, but the results showed the high reputation of these well supplies to be justified; minor irregularities were covered by chloramine treatment. The results obtained by chloramination (p. 5) are striking. The percentage of first-class samples, giving negative results for typical *B. coli* in 100 ml. of water, was not lower than 96 from any class of supply in 1937, and the total filtered supply, including some unfiltered waters, of 310 million gallons a day yielded 99 per cent. of first-class samples. The progressive improvement of the supply is shown by the following sequence of first-class samples: 1933, 85·5 per cent.; 1934, 88·3; 1935, 95·7; 1936, 96·5 per cent.; it appears that the asymptote will soon be reached.

The Cobbins brook, into which the Epping sewage effluent is discharged, continues to be watched although the outbreaks of paratyphoid in that town occurred as long ago as 1931 (260 cases), 1933 (22 cases) and 1935 (2 cases). The sewage and effluent from Epping continue to yield frequent evidence of the persistence of the paratyphoid organism although, it is suggested, on the whole the figures seem to point to a very gradual decrease. Comparative experiments on the sewage and effluent using Wilson's direct-plate method and Szper's enrichment method (preferably with double-strength medium) confirmed the conclusion in the previous report that "There would appear little advantage in the use of enrichment media for effluents rich in pathogens, and here Wilson and Blair's is definitely to be preferred, but when dealing with polluted waters necessitating the examination of large volumes, Szper's medium holds considerable promise of success." A comparison of enrichment media for the primary isolation of coliform bacteria has led to the substitution of a tube of brilliant-green bile broth for one of peptone water in routine tests, and citrate solution with brom-thymol blue as a pH indicator has been introduced as a differential test for members of the coli-aerogenes group.

The work of the biological section continues to be usefully developed. The chemical section contributes, among other things, a useful discussion of the deterioration of sand filters by the deposition of calcium carbonate on the sand grains.

Continuous Towel Cabinets

The London County Council education committee are now trying out automatic continuous towel

cabinets in their schools. The machines contain a roll of towelling 50 yd. long by 1 ft. wide which is fed out in lengths, and the soiled towelling is automatically returned to the machine after use so that it cannot be used a second time and does not come in contact with the clean roll. No charge is made for the installation and hire of the machines, but 1*s*. 9*d*. is charged for laundering each roll. A roll will serve for about 200 washes, so that the cost is only a tenth of a penny per wash. If the machines ensure that no child dries itself on a towel previously used by a fellow, they may do much to prevent the spread of scabies, which has recently been increasing in many parts of the country, and also of ringworm, impetigo, and several forms of ophthalmia—all major nuisances of school medicine.

Influenza and Pneumonia

The decline in the number of deaths attributed to influenza, in the great towns of England and Wales, that took place towards the end of January has not been maintained. In the week ending Feb. 11 265 such deaths were reported compared with 210 in the previous week and 173 in the last week of January. At the same time notifications of primary or influenzal pneumonia have risen rather sharply to 1817, compared with 1442 and 1512 in the two previous weeks, and in the country as a whole the level is now 9 per cent. above normal. Nearly all parts of the country have shared in that rise, but it has been particularly marked in Yorkshire. Deaths from influenza and notifications of pneumonia both show increases in towns of the midland and southern counties, including London, so that while the position in the earlier affected north-west areas appears to be improving there is clearly some sign of an extension of the infection, whatever it may be, to other parts of the country. Influenza cases are being admitted to some of the London fever hospitals.

According to the latest report of the health section of the League of Nations influenza was prevalent in Copenhagen at the end of January, but was declining in Hungary and Switzerland.

INFECTIOUS DISEASE

IN ENGLAND AND WALES DURING THE WEEK ENDED FEB. 11, 1939

Notifications.—The following cases of infectious disease were notified during the week: Smallpox, 0; scarlet fever, 1677; diphtheria, 1280; enteric fever, 28 (24 "expected"); pneumonia (primary or influenzal), 1817; puerperal pyrexia, 181; cerebrospinal fever, 30; acute poliomyelitis, 14; acute polio-encephalitis, 4; encephalitis lethargica, 3; dysentery, 48; ophthalmia neonatorum, 92. No case of cholera, plague or typhus fever was notified during the week.

The number of cases in the Infectious Hospitals of the London County Council on Feb. 17 was 3360, which included: Scarlet fever, 658; diphtheria, 943 (carriers, 42); measles, 2; whooping-cough, 789; puerperal fever, 19 mothers (plus 10 babies); encephalitis lethargica, 302; poliomyelitis, 4. At St. Margaret's Hospital there were 22 babies (plus 12 mothers) with ophthalmia neonatorum.

Deaths.—In 126 great towns, including London, there was no death from smallpox, 1 (0) from enteric fever, 1 (0) from measles, 3 (1) from scarlet fever, 17 (3) from whooping-cough, 29 (2) from diphtheria, 50 (16) from diarrhœa and enteritis under two years, and 265 (41) from influenza. The figures in parentheses are those for London itself.

There has been some rise in the number of deaths attributed to influenza, the totals for this week and the six preceding weeks (working backwards) being 265, 210, 173, 223, 214, 144, 89. Of these deaths 110 were reported from the South-eastern Area, Ilford contributing 5; 107 from the Northern Area, Manchester contributing 13, Leeds 9, Huddersfield and Sheffield each 8, Bradford 6; and 51 from the Midland Area, Bristol contributing 10, Leicester 9 and Birmingham and Nottingham each 8; Ipswich and Rhondda each reported 4. Fatal cases of diphtheria were scattered over 22 great towns, Harrow reporting 3, no other great town more than 2. Newcastle-on-Tyne had 2 deaths from whooping-cough. East Ham reported the only death from enteric fever.

The number of stillbirths notified during the week was 274 (corresponding to a rate of 40 per 1000 total births), including 34 in London.

SPECIAL ARTICLES

MEDICINE AND THE LAW

Patient and Healer: The Question of Undue Influence

THE successful claim against a spiritualist in Chennells and Dodd *v.* Bruce brought out afresh the legal effect of undue influence in the relations between patient and spiritual adviser or patient and healer. Miss Marjorie Dodd, a civil servant, was seriously injured in a traffic accident. From the date of the accident until her death she was so ill that her affairs were administered by her sister, Miss Emmeline Dodd, as her agent. Miss Emmeline Dodd gave evidence that her deceased sister's accident caused concussion, cerebral hæmorrhage and meningitis. Mrs. Bruce, the defendant, used to massage her head round the eyes. Mrs. Bruce was a spiritualist and Miss Emmeline Dodd and a third sister used to attend her séances, paying a shilling each at each occasion. Mrs. Bruce, acting as the medium, went into what appeared to be a trance; she then spoke in a guttural voice which she ascribed to her "control," a North American Indian called "Grey Feather." Grey Feather advised Miss Emmeline Dodd to "keep on fighting" in the claim for damages for Miss Marjorie Dodd's accident. Application was made to the Poor Persons Department at the Law Courts and eventually, with the help of the solicitors and counsel assigned, £1500 was received in settlement of the claim. At a subsequent séance Grey Feather, speaking through Mrs. Bruce as medium, expressed the wish that Mrs. Bruce should receive some part of the £1500 as reward for her services; he suggested £200. A few days later Mrs. Bruce, meeting the third sister in the street, told her that she had learned at another séance that the spirit world was seriously perturbed at the delay in paying this sum. At a later séance the sisters were told that the amount had gone up to £400 and must be paid. Miss Emmeline Dodd thereupon gave Mrs. Bruce a cheque for £400. This sum the executors, Mr. Chennells and Miss Emmeline Dodd, afterwards sought to recover from Mrs. Bruce on the ground that it had been obtained from the deceased sister's estate by fraud or undue influence. Mr. Justice Hallett was not prepared to find that there had been fraud, but he had no doubt that the relationship of patient and healer had existed between the dead sister and Mrs. Bruce, and that Mrs. Bruce had stood in the relationship of spiritual adviser to Miss Emmeline Dodd, the plaintiff. A person in Mrs. Bruce's position must not use that position to obtain pecuniary advantage for herself.

Mrs. Bruce had put in a defence admitting that she was a spiritualist and that, at the request of the sisters, she had given them help and advice. She

contended, however, that the £400 was a voluntary gift in no way induced by fraud or undue influence. Mrs. Bruce did not appear at the trial and was not represented. This was a pity since there was a novel point of law to be argued. The undue influence, resulting in the cheque for £400 being paid, was not exercised on Miss Marjorie Dodd who owned the money but on Miss Emmeline Dodd who was merely looking after her sister's affairs at the time. The judge thought that, as a matter of principle, it would be wrong to water down the doctrine of undue influence and to limit it to those cases where the undue influence was directly exercised upon the actual owner. He further held that there was no consideration for the payment of £400. Judgment was given for the plaintiffs with costs. Last Monday Mrs. Bruce appeared in court and asked for a new trial on the ground that she had been in Australia and had only now returned; she had been unaware that the case was coming on; the notice of trial had apparently been sent to a solicitor who had ceased to act for her. Mr. Justice Hallett, remarking that a defendant who went to Australia with a charge of fraud against her did not deserve much sympathy, ordered that the judgment should be set aside if Mrs. Bruce paid the costs of the action and of the present application within 14 days; otherwise the judgment would stand.

The classic authority on this subject is Allcard *v.* Skinner (1887) where A was introduced by N, her spiritual director and confessor, to S, the lady superior of a sisterhood. A became an associate of the sisterhood, passed the grades of postulant and novice and eventually became a professed member, taking (amongst other vows) the vow of poverty. It was held that, although she had voluntarily and on independent advice entered the sisterhood with intent to leave all her money to it, yet, since at the time when she made the gifts she was subject to the influence of S and N, she would have been entitled to restitution on leaving the sisterhood. It is right and expedient, said Lord Justice Lindley, to save people from being victimised by others. Courts of equity do not set aside such gifts on the grounds of folly, imprudence or want of foresight, but to prevent people from being forced, tricked or misled. The equitable doctrine of undue influence was developed out of "the necessity of grappling with insidious forms of spiritual tyranny and the infinite varieties of fraud." In an earlier case of medical relationship, Dent *v.* Bennett (1839), a patient aged 85 agreed to pay his doctor £25,000 a year for medical and surgical assistance for the rest of his life. The contract was set aside on the ground that the patient's signature must have been obtained by fraud or undue influence. In Morley *v.* Loughnan (1893), the defendant, a man of no means, member of a religious sect known as Exclusive Brethren, was employed as travelling companion to Mr. Morley, an epileptic subject with a large fortune. Mr. Morley, being in a low and morbid state, allowed Loughnan to regulate his diet and medicine and placed nearly all his money at his companion's disposal. Loughnan obtained from him some £140,000.

The court recalled Lord Justice Bowen's words in Allcard *v.* Skinner, that there was "a fetter on the giver's conscience" which required a gift, even though in fact freely made, to be set aside on the ground of public policy. Though the degrees of dominion exercised by the dominant over the servient mind vary in all these cases, and though the relationship of doctor and patient or of solicitor and client introduces special opportunities and special conditions, the principle is always the same. The courts regard it as pedantry, not public policy, to object to trivial gifts; yet circumstances trivial in themselves—e.g., deafness or blindness—have been held to reinforce the presumption of undue influence. The position of doctors who benefit under their patient's wills is, as is well known, another occasion where courts are inclined to inquire closely into all the circumstances.

PARIS

(FROM OUR OWN CORRESPONDENT)

AGITATION AGAINST DIPHTHERIA VACCINATION

In the summer of 1938 vaccination against diphtheria with Ramon's anatoxin was made compulsory in France by law. The comparatively peaceful passage of this legislation seemed to augur well for the future, but the rumblings of dissent have recently gathered force, and on the evening of Feb. 15 several thousand people collected in the Salle Wagram to listen to denunciations of Ramon and all his works. A sprinkling of doctors on the platform was a reminder of the old biological truth that all the sheep in a flock are not necessarily white. Some of the speakers took advantage of the occasion to abuse not only anti-diphtheria vaccination but also all the vaccines and sera fathered by the Pasteur Institute. The success of this emotional evening had been undermined by the well-organised publicity recently given to the arguments in favour of anti-diphtheria vaccination, and it is doubtful if the meeting achieved much more than a series of pleasant thrills. The wind had also been taken out of the protestants' sails by a communiqué issued on Feb. 15 by the prime minister, M. Daladier, categorically denying rumours of deaths in the army and navy as a sequel to anti-diphtheria vaccination.

CAMPAIGN AGAINST TROPICAL DISEASES

The present tendency of Frenchmen to think in terms of Empire is illustrated by the appointment at the French Colonial Office of an advisory commission on trypanosomiasis. The commission is given a free hand to study and report on every aspect of the disease and to make proposals for combating it. It is to consist of the inspector-general of the colonial health service, the pharmacien-général of the colonial office, and twelve others to be chosen by the Société Exotique of Paris. The commission may also coöpt members in a consultative capacity.

PASTEUR ON NOMENCLATURE

One of the obituary notices of Prof. Eugène Macé of the Faculty of Medicine of Nancy, who died recently at the age of 82, quotes a letter written by Pasteur to Macé on the occasion of the publication of Macé's book on bacteriology. "If you will allow me," wrote Pasteur, "I would express regret for your having adopted the word bacteriology. Do you not find it too special? Is there not need for a term more general, more comprehensive, to describe the young science which grows so quickly, which opens and reveals so many new horizons? I must confess that I would much prefer the expression microbiology and, still more, microbie. Would you not be satisfied with the title: Traité pratique de microbie? And then, the word is French. And that is something. If I had known of your undertaking early enough, I would have done all I could to dissuade

you from adopting the term bacteriology which is suitable rather for a chapter of microbie than for microbie itself in its entirety."

A.R.P.

On Feb. 4 the Third National Congress of Passive Defence was held in Paris under the auspices of several national organisations, including the National Union of Officers of the Reserve and the French Red Cross. In the morning a film was shown entitled La protection contre les bombardements aériens. In the afternoon the eight commissions of the congress sat in various lecture halls in the Sorbonne, and discussed such subjects as the protection of buildings, fire-fighting organisation, police control and health and evacuation services. Representatives of A.R.P. organisations in Great Britain and Belgium presented reports on the measures being taken in their respective countries, a long account was given by General Niesel of A.R.P. in Germany, and General Pétain addressed the meeting on national defence.

IRELAND

(FROM OUR OWN CORRESPONDENT)

RETIREMENT AT SIXTY-FIVE

THE Minister for Local Government and Public Health was recently asked if it were still his intention that pensionable officers employed by local authorities should resign their positions at the age of sixty-five, and, if so, whether he would state the action already taken or in contemplation to secure compliance in the matter. The Minister replied to the first part of the question in the affirmative. The matter, he added, had been brought to the attention of local bodies some time ago. It would be embodied in legislation when a suitable occasion should arise.

As the Minister stated, a circular was issued some years ago by his department to local authorities advising them that employment of pensionable officers should cease at the age of sixty-five, and some authorities, regarding the circular as mandatory, demanded the resignation of officers above that age. Very few resigned, as it became clear that neither the local authorities nor the Minister had power to compel officers to resign merely on account of their age, unless such power was explicitly expressed in their terms of appointment. It was admitted by the Minister that he had at the time no compulsory power in the matter. If he should now or in the future take steps to obtain power by legislative means, the interests of existing medical officers as well as the conditions of future entrance to the local medical services will require grave consideration.

DINNER OF THE ROYAL COLLEGE OF SURGEONS

The charter day dinner of the Royal College of Surgeons in Ireland was held last Saturday in the hall of the college, with Mr. William Doolin, the president, in the chair. Before the dinner Mr. Henry Wade of Edinburgh was admitted an honorary fellow of the college, being introduced by Mr. Henry Stokes, vice-president of the Irish college. Some 120 fellows of the college and their guests sat down to dinner, and a pleasant evening was spent. Among those who spoke were Mr. Henry Wade, Dr. T. G. Moorhead, Dr. T. P. C. Kirkpatrick, and the President.

UNITED STATES OF AMERICA

(FROM OUR OWN CORRESPONDENTS)

PROJECTED HEALTH LEGISLATION

ON Jan. 30 the Hon. Robert F. Wagner, senator from the state of New York, made a radio speech which was broadcast over the nation-wide network of the National Broadcasting Company. After reviewing the evidence of the need for the extension of medical care Senator Wagner announced that he is now drafting legislation to make the "broad-gauged plan" of the President's interdepartmental committee "a national reality." "Under no circumstances," he said, "will the Federal Government go into the business of furnishing medical care, or interfere with the states in the licensing of medical or other practitioners. State plans would be established only after consultation with the medical professions who would also be fully represented on advisory councils."

Meeting the criticism that 850,000,000 dollars is an excessive charge on the national treasury Senator Wagner assured his hearers that in the first year authorisation for grants in aid will not exceed 90,000,000 dollars. Matching formulæ will take into account the special health needs and financial resources of the several states.

The states will be free to establish compulsory health insurance if they choose to do so. "The bill will not impose a Federal strait jacket upon the development of state plans." The senator recognised that millions of consumers of medical services want compulsory health insurance but that the medical profession is divided as to the wisdom of compulsory features. He himself considers that insurance for medical care is entirely compatible with American concepts: ". . in the history of our own country there are ample precedents for health insurance itself. The very first step taken by the Federal Government in the field of health was to create in effect a compulsory health insurance system for seamen in the American merchant marine." He quoted at length British experience with national health insurance and concluded his speech with a reference to the recommendations made ten months ago by the British Medical Association.

". . . it is well known from numerous examples how a more or less intimate contact between different human societies can lead to a gradual fusion of traditions, giving birth to a quite new culture. The importance in this respect of the mixing of populations through emigration or conquest for the advancement of human civilisation need hardly be recalled. It is, indeed, perhaps the greatest prospect of humanistic studies, to contribute through an increasing knowledge of the history of cultural development to that gradual removal of prejudices which is the common aim of all science.—Prof. NIELS BOHR, For. Mem. R.S., *Nature, Lond.* Feb. 18, 1939, p. 271.

". . . Of course I may be wrong. I am open to conviction, but one thing I do urge. Before another set of Regulations as to training and qualifications of health officers comes, and before a single other misguided person like myself gets up and talks about it, let those concerned put their heads together and decide what type of person they *do* want for health visiting, the educationist or the nurse; then, and then only, may it be possible to standardise a rational training for health visitors."—J. GREENWOOD WILSON at a meeting of the Society of Medical Officers of Health, Feb. 17.

LETTERS TO THE EDITOR

"THE NEW OUTLOOK IN PNEUMONIA"

SIR,—The leading article under this heading in your issue of Feb. 11 has somewhat astonished me. While there can be no doubt that the introduction of sulphapyridine is a great contribution to the treatment of pneumonia, it is my opinion that it is still too early to describe it as a specific remedy.

The value of the large body of work on pneumococcus pneumonia performed in the United States of America lies not only in the proving of the efficacy of serum treatment. The American workers have themselves introduced a "new outlook on pneumonia" which, so far as I am aware, has not yet been taken fully into account in assessing the value of this new drug. Before any reasoned statement, in fact before even a general impression, can be made regarding the efficacy of M. & B. 693, a very large number of cases will require to be reported in which, before the onset of therapy, the infecting pneumococcus has been typed and blood-culture has been performed. These two factors alone introduce sufficient errors in any investigation of pneumonia to prevent an opinion being formed from the observation of untyped cases.

I can see nothing but harm resulting from such a premature leading article and it seems to give small encouragement to those who are taking à more painstaking way of investigating the value of the drug. I am, Sir, yours faithfully,

THOMAS ANDERSON.

Ruchill Fever Hospital, Glasgow, Feb. 14.

ANEURYSM OF POPLITEAL ARTERY

SIR,—I was much interested in Mr. Cecil Flemming's paper in your issue of Feb. 11 (p. 322). A recent case of my own appears to support his conclusion that ligature should be combined with excision or some form of plastic operation.

A man, aged 73, a fishmonger, came under my care in August, 1938, complaining of a swelling in the posterior aspect of the left knee, which he had first noticed ten months previously owing to the aching pain associated with it. The pain was noticed especially on walking or long standing and occasionally was felt down the back of the leg. The swelling had increased steadily in size until a fortnight ago, when it suddenly became twice as large. During the last week it had become more painful. He had had varicose veins in the left leg for many years, and an operation for hydrocele in 1924. There was no history of venereal disease; he had 5 children alive and well, and his wife had no miscarriages.

A swelling with expansile pulsation was present in the left popliteal fossa with a well-marked systolic bruit. The left dorsalis pedis pulse was weaker and later than the right. Pupils normal. Mouth: leucoplakia inside angles of mouth and beneath right side of tongue. Lungs: emphysema. Heart: sounds weak, no murmurs. Radiography showed slight enlargement chiefly of the left ventricle and also aortic dilatation. Electrocardiogram: auricular fibrillation at a rate a little above the normal (Dr. K. Shirley Smith). Blood-pressure: systolic 144, diastolic 100. Urine normal. The blood Wassermann reaction was strongly positive (1/120 dilution of patient's serum fixing standard amount of complement). A radiogram showed gross atheroma of the femoral artery in the popliteal space; there was no bone erosion (Dr. S. Cochrane Shanks).

Operation was done on Aug. 31, 1938, under gas, oxygen and ether. A tourniquet was applied and a long vertical incision made over the popliteal fossa. It was not possible to separate the popliteal artery and vein and a strong silk ligature was placed around both just proximal to the sac. The lower end of the sac was then exposed and the vessels were again ligatured with silk. The tourniquet which had been in position for about 40 minutes was removed. The aneurysmal sac was then incised and a very large clot removed. It was noted that there was almost no bleeding from collateral vessels into the sac and no ligatures or sutures were necessary. The sac was gently cleared of loose and slightly adherent clot and irrigated with flavine. It was then dissected away from the surrounding tissues to which it was not greatly adherent. A corrugated rubber drain was inserted through each extremity of the wound into the popliteal space. At the end of the operation the foot was warm and a good colour and no anxiety was at any time felt as to the viability of the limb. He was last seen on Jan. 20, 1939, when he complained of a slight aching and "tightness" in the left foot.

On microscopical examination (Dr. H. W. C. Vines) the clot showed all stages of organisation including at the periphery hyalinisation and early calcification. The arterial wall was almost entirely hyalinised, the vasa vasorum showed perivascular cuffing, and there was inflammatory fibrosis of media. These findings were considered consistent with syphilis.

Mr. Flemming states that "the femoral artery was ligatured immediately proximal to the sac" but he does not mention whether the femoral vein was also ligatured. It is pointed out in Carson's "Modern Operative Surgery" (1934) that Makins in his Bradshaw lecture for 1913 (*Lancet*, 1913, **2**, 1743) concluded that when it became necessary to ligature a main arterial trunk its accompanying vein should also be tied. I am, Sir, yours faithfully,

Harley Street, W.1, Feb. 20. CAMERON MACLEOD

USE AND ABUSE OF PURGATIVES

SIR,—In your account of the meeting of the Medical Society of London in your last issue I am reported to have said that Sir Arthur Hurst had been responsible for the sale of paraffin in half-gallon bottles. Your excellent reporter, at a somewhat late hour in the evening, evidently did not catch the whole of my remark, in which I said that I believed that a late colleague of Sir Arthur Hurst had been responsible for the habit of buying paraffin in half-gallon bottles. It would be obviously uneconomic for a patient to purchase such large quantities if he limited himself to the small doses that Sir Arthur Hurst prescribes—one to two teaspoonfuls. I am, Sir, yours faithfully,

Cavendish Square, W.1, Feb. 20. J. E. H. ROBERTS.

PREGNANCY TESTS AND NOTIFICATION

SIR,—Dr. Joan Malleson's suggestions for reducing the incidence of criminal abortion, published in your issue of Feb. 11, are admirably detailed and sympathetic. May I, as a laywoman, make one comment? It occurs to me that the service of Aschheim-Zondek tests would need to include careful arrangements for anonymity, so as to ensure that positive reports could not be used for purposes of notification. Might not some system of complete privacy be devised, such as is embodied in our excellent service of venereal diseases prophylaxis and treatment? Women who come for help ought to be quite sure that the help does not conceal a trap.

I am, Sir, yours faithfully,

Chelsea, S.W.3, Feb. 20. F. W. STELLA BROWNE.

SEPTICÆMIA OR BACTERÆMIA?

SIR,—Mr. Fairbank's letter in your last issue usefully reminds us that there are differences to be observed in employing the terms septicæmia and (as you print it) bacteræmia; but I wonder why "bacteræmia" should be considered an improvement on the original "bacteriæmia," in which form the word is still generally used. It is only of recent years, I think, that some medical printers have imposed this shortened form upon us. Why does this particular "i" offend so much that it is to be plucked out? I am, Sir, yours faithfully,

REGINALD MILLER.

Upper Wimpole Street, W.1, Feb. 18.

*** Mr. Fairbank wrote bacteriæmia with an "i," and the word was printed bacteræmia because that happens to be THE LANCET style. Dictionaries are about fifty-fifty on the subject, and if the shorter form is etymologically admissible there is something to be said for it on grounds of euphony. Moreover in the many words compounded with -æmia there is a tendency to simplify the prefix—e.g., sulphæmia, oxæmia.—ED. L.

FIBROCYSTIC DISEASE OF BONE

SIR,—In their extremely interesting article on fibrocystic disease of bone with skin pigmentation and endocrine dysfunction in your last issue, Drs. Robson and Todd state that precocious puberty in females suffering from this disorder develops "at the time when bone softening first gives rise to symptoms." Yet I have under my care a girl aged 2½ years with typical extensive pigmentation and diffuse cystic bone changes which are so far advanced that in the last six months, as the result of slight trauma, she has fractured both femora and one humerus, but who, as yet, does not show any signs of precocious puberty. They also agree with some other writers that possibly "the male cases should be regarded as distinct from the female in that precocious puberty does not occur," but the bone changes and pigmentation are so exactly alike in the two sexes as to leave no reasonable doubt of their identity.

The real purpose of this letter is, however, to draw attention to the fact that, with the possible exception of Hirsch, my colleague Dr. Frances Braid was the first to describe the disease in males, in an article in the *Archives of Disease of Childhood* (vol. 7, p. 313), entitled Osseous Dystrophy following Icterus Gravis Neonatorum—a paper which everyone who has written on this subject appears completely to have ignored. Her patient has been under continual observation from his birth ten years ago until the present time, and together with my patient formed the subject of a communication by Dr. Braid to the autumn meeting of the British Orthopædic Association, which will be published shortly. Both these children suffered from icterus gravis neonatorum; indeed, Dr. Braid regards the bone changes as a sequel of that condition and in support of this thesis gives details in her paper of the development of bone changes in puppies after ligation of the common bile-duct.

The suggestion that icterus gravis has an ætiological connexion with this syndrome of bone changes and pigmentation demands careful consideration; because, although some of the case-histories fail to mention the occurrence or otherwise of jaundice at birth, in two instances this event is stressed. For instance, in the case described by McCune and Bruch the jaundice was so intense and lasting as to lead to a diagnosis of congenital obliteration of the bile-ducts, and in one of the two instances recorded by Summerfeldt and Brown in the current issue of the *American Journal of Children's Diseases* "there was a history of jaundice at birth which lasted four months." Considering the rarity of the incidence of icterus gravis and its high mortality the association of severe neonatal jaundice and bone changes in such a considerable proportion of the cases reported (4 in 19) cannot be dismissed lightly as a chance occurrence, especially since the significance or even the incidence of jaundice in infancy may quite easily be overlooked by many clinicians and parents. An example of such an omission may be found in the paper by Albright and his colleagues, who in giving a résumé of the case described by McCune and Bruch, to which reference has already been made, do not mention the occurrence of severe neonatal jaundice. On the other hand I have seen an adult male with this syndrome concerning whom, after careful inquiry, it was quite impossible to get a history of jaundice. It would be interesting to know whether the patient of Drs. Robson and Todd suffered from neonatal jaundice.

Finally, it is doubtful if the authors of the paper are correct in including in their list of recorded cases that described by Snapper and Parisel; for biopsy of the affected bones showed that the condition was a xanthomatosis. Biopsy of bone has been performed in Dr. Braid's case and did not reveal any evidence of xanthomatosis.

I am, Sir, yours faithfully,

Birmingham, Feb. 21. LEONARD G. PARSONS.

AUTOSERUM THERAPY FOR DRUG ADDICTION

SIR,—I can confirm from my own experience A. B. C.'s opinion of the efficacy of this treatment. Mine was a case of five years' addiction to morphia and I had tried three so-called cures, without success but with much discomfort, before deciding to try autoserum therapy, having learned of this method of treatment from your columns. Despite the favourable reports mentioned therein, I started the treatment with feelings of doubt and misgiving. Imagine therefore my pleasure and surprise when I experienced only trifling withdrawal symptoms, and was able within ten days to do without morphia altogether. Profuse perspirations, nausea, sneezing and nervous irritability were all negligible when compared with my experience of them during other methods of treatment; moreover insomnia was not prolonged and was relieved by Dionin. The physical weakness which A. B. C. described in his case was also experienced by me, and I am of opinion that at least three weeks' convalescence is necessary after a course of treatment before resuming active work.

It would be of interest to know the scientific reason for the effect of antoserum therapy, particularly with regard to drugs; also whether auto*hæmo*therapy has been tried in the treatment of drug addiction, and if so with what results. I sign myself,

Feb. 16. X. Y. Z.

LIVERPOOL PSYCHIATRIC CLINIC.—Dr. Otto Isakower, formerly vice-director of the psycho-analytic clinic at Vienna, will give three lectures at the clinic on March 15, 22, and 29, at 5 P.M. He will speak on Freud's conceptions of psychopathology. Further information may be had from the organising secretary of the clinic, 1, Abercromby Square, Liverpool, 7.

OBITUARY

CONRAD FITZGERALD

M.R.C.S., L.S.A.

On Feb. 2 Dr. Fitzgerald died at Fortune Bay, Newfoundland, at the age of 92. Judge Prose, one of Newfoundland's historians, described him as "an extraordinary—a most extraordinary man." His grandson wrote that it was "owing to the tremendous attraction the sea had for him, his love of Nature in all her moods, his bent towards natural history and his thirst for hard work (that) he eventually chose Newfoundland as the country which of all countries suited him best." He was well known throughout Newfoundland as a great doctor and experienced navigator. He used to visit his patients in his ship, the *Albatross*, which he sailed single-handed at the risk of his life, beating up and down the treacherous and rocky south coast. His skill in bringing his ship to safe anchorage in some friendly harbour through raging gales and mountainous seas on a lee shore was uncanny. His prodigious strength and hardihood was shown too in his winter battles on snow-shoes through blizzards and snowstorms to reach his patients in most isolated spots. His experiences published for circulation among his friends a few years ago illustrate the enormous difference between medical practice in Newfoundland and in Britain.

Conrad Fitzgerald was born at Marlborough, where his father practised for many years. After a short time attending schools at Epsom and at Bath he went to a boarding-school at Stapleton, near Bristol, where one of his fellow pupils was W. G. Grace. At the age of sixteen he was apprenticed to Dr. Lawrence of Bath with whom he worked for three years. Then in 1866 he entered the Bristol medical school, doing his hospital work at the Bristol Royal Infirmary. Here he fell in again with W. G. Grace. Fitzgerald won several prizes and a gold medal at Bristol and qualified in April, 1870. Very soon an opportunity offered itself for him to sail as surgeon on board the *Anglesey*, a full-rigged ship running between London and Melbourne.

After some three years as ship's surgeon Fitzgerald accepted an invitation from a London firm to go to Newfoundland as doctor to their traders. The practice was to include the whole of Fortune Bay, and he settled at Harbour Breton. After a trial period of three years Fitzgerald decided to spend five more years in the country, but the five stretched out to over sixty—from 1873 until his death. For forty years he had sailed his first schooner *Albatross* in all sorts of weathers, fair and foul, until her name was a household word in Fortune Bay. Dr. Fitzgerald's single-handed exploits became known throughout Newfoundland, and he was rated as good a sailor as he was a surgeon. The log of the first *Albatross* opened in June, 1876; the ship was run down and sunk by a steamer in July, 1916. He ordered a second *Albatross* and continued to sail her as before single-handed. It was not until 1928, when he was over 80, that a serious septic infection of the hands incapacitated him from his nautical career. Yet his professional life was not ended. His grandson, in his record of Fitzgerald's life, says "At eighty-six . . . he contents himself with professional work in his immediate neighbourhood."

In a lifetime spent sailing a seven-ton yacht around the tempestuous coast of Newfoundland Fitzgerald proved himself to be a rare instance of a man achieving mastery of two very different callings—medicine and the sea. He died as he had lived, far-famed and greatly loved.

GEORGE JOHN JENKINS

O.B.E., M.B. EDIN., F.R.C.S.

Mr. George Jenkins, the aural surgeon, who died on Feb. 15 at the age of 65, was educated at Melbourne and at Edinburgh University, taking his M.B. in 1895. In 1900 he came to London as senior demonstrator of anatomy at King's College, in succession to A. W. Cadman, and in 1902 he obtained his F.R.C.S. At this time he was intending to become a general surgeon, but Arthur Cheatle persuaded him to turn his attention to aural surgery. This he did with great success, and he was first appointed aural surgeon to the German Hospital and in 1910 assistant aural surgeon to King's College Hospital. In 1913 he was secretary of the International Medical Congress held in London, and later he was president of the otological section of the Royal Society of Medicine. In 1917 he became full surgeon at King's, and when Arthur Cheatle retired in 1928 Jenkins succeeded him as director of the ear, nose and throat department and lecturer on otology in the medical school. While at King's he took a great interest in the rugby football and boxing clubs, being a useful boxer himself.

As a teacher of anatomy and aural surgery Jenkins was unsurpassed, for he took unlimited pains with his lectures and a personal interest in each of his students. He was imbued with a vast amount of energy in all his work, and often after a heavy day he would go to King's late in the evening and operate until the early hours of the morning. In 1932 ill health compelled him to give up his appointment at King's, though he was still able to carry on his private practice and his work for the London County Council. In the last few years he acquired a farm on the River Annan near Lockerbie in Dumfries, and there spent much of his time in fishing and breeding pedigree cattle, the latter with such success that on one occasion he won the championship at the Highland Society's annual show.

"The death of G. J. Jenkins," writes L. C., "terminates a friendship of more than thirty years' duration, dating from the time when he came from Edinburgh to teach anatomy at King's College. In this comparatively humble appointment he showed such enthusiasm for his work that he proved an invaluable assistant to Prof. Arthur Robinson and later to Prof. Peter Thompson, and it was this combination of energy and ability which was to carry him to distinction as a specialist. Turning to clinical work he obtained a surgical appointment at the German Hospital, where he was able to give his anatomy students their first introduction to clinical surgery. His anatomical capacity attracted the attention of Arthur Cheatle, who was then engaged on his studies of the surgical anatomy of the temporal bone, and he became Cheatle's colleague when Urban Pritchard retired. From this time he went ahead steadily and gained a large practice, in spite of his rather casual attitude to social matters. His contributions to otology were many, and he was especially interested in meningitis as a complication of middle-ear disease. In this his work laid the foundation of the improved prognosis of recent years. This particular study entailed much emergency work, and he was accustomed to many night calls

and long hours, which must have put a heavy strain on his impaired health. His passing means the loss of a loyal friend and colleague and a man of scientific distinction."

WILLIAM JOSEPH McCARDIE

M.B. CAMB.

THE medical profession in Birmingham has lost a notable figure by the death on Feb. 14 of William Joseph McCardie. The eldest son of Joseph William McCardie, who died when McCardie was seven years old, he was born at Edgbaston in 1865, and except for three years at Caius College, Cambridge, lived the whole of his life in Birmingham. His school days were spent at King Edward's School, and he received his medical training at Queen's College and at the Birmingham hospitals. In 1897, largely on the advice of Sir Gilbert Barling, McCardie secured appointment as visiting anæsthetist to the General Hospital. Subsequently he became anæsthetist to the Ear and Throat Hospital, the Dental Hospital and other hospitals in the neighbourhood.

McCardie was well fitted by temperament for anæsthetic work. "The most kind and conscientious of men," writes H. W. F., "he was always trying to maintain a high standard; he was uniformly reliable, ready to help at any time, and possessed a manner which made him greatly liked by a wide circle of friends, colleagues and patients. His enthusiasm for his profession was a shining example to younger workers in many walks of life, and not only was he the first anæsthetist outside London to devote the whole of his professional life to this specialty but in this country he attained a pre-eminent position. He was often asked for before the surgeon had been selected, and his blend of cheerful confidence with quiet dignity did much to reassure multitudes of patients. The quaint stories and amusing limericks with which McCardie seasoned his potions will long be remembered by those who came under his hands, and particularly by the young, for he was specially happy with children.

"For more than thirty years McCardie was indefatigable in his attendance at anæsthetic meetings in all parts of the country, and he was president of the section of anæsthetics of the Royal Society of Medicine shortly after its formation. His case-records were most carefully kept, and the accounts of unusual or instructive occurrences which came from his pen were clear and well chosen. New methods and drugs received his unbiased attention, and his knowledge of the literature of anæsthetics was particularly extensive. Until recently he was careful to file either a cutting or an extract of every notable article on an anæsthetic subject.

"He was fond of company and was a generous and delightful host. At games he was keen on golf and tennis. He won many prizes for golf, including the Ulster Cup of the B.M.A. on two occasions, and he possessed his county colours at tennis. His genial and kindly manner covered a truly British spirit. He was a conservative who supported the best of our institutions of sport and of daily life, concrete and abstract, with unflagging devotion, and his loyalty to friends and colleagues stands as an abiding memory. A few years ago he sustained great sorrow which drove him to seek respite in his beloved work; but notwithstanding the anxious care of his wife and his colleagues his health failed. He retired to Warwick at the end of last year but alas the malady could not be arrested. To Mrs. McCardie, his two sons and his daughter we offer our sincere sympathy."

JAMES PLAYFAIR M'MURRICH

PH.D. JOHNS HOPKINS, F.R.S. CANADA

Prof. M'Murrich, who occupied the chair of anatomy at Toronto University until eight years ago, died on Feb. 9 at the age of 79. He was born in Toronto in 1859, the son of the Hon. John M'Murrich, and was educated at Upper Canada College and Toronto University, graduating B.A. in 1879. In 1885 he took his Ph.D. at Johns Hopkins and in the following year was appointed professor of biology at Haverford College, Pennsylvania. Thereafter he was successively assistant professor of animal morphology at Clark University, professor of biology at the University of Cincinnati, and professor of anatomy at the University of Michigan. In 1902 he published the first edition of his book "The Development of the Human Body" and in the following year he edited Sobotta's "Atlas of Human Anatomy" and the fourth edition of Morris's "Human Anatomy." He had a clear and straightforward style, very valuable in textbooks for students, and the same gift of simplification made him an excellent teacher. In 1907 he was appointed to the chair of anatomy at Toronto, a post he held until his retirement from active work in 1930. In 1922 he became dean of the School of Graduate Studies, and in the same year was president of the Royal Society of Canada and of the American Association for the Advancement of Science. M'Murrich wrote extensively on comparative anatomy and embryology in the scientific journals, and in 1930 published a study of Leonardo da Vinci which threw new light on his achievements as an anatomist.

In 1882 Prof. M'Murrich married Katie Moodie Vickers of Toronto, who survives him with one daughter and one son.

GRAHAM SCALES SIMPSON

F.R.C.S., L.D.S.

THE news of the sudden death of Graham Simpson on Feb. 19 from coronary occlusion has come as a painful shock to his many friends. Only a few months ago he returned to work after a long and serious illness, from which he had made a complete recovery, and even on the day of his death he had been seeing patients and operating as usual.

A native of Brighton his original intention was to be a dental surgeon, and for that purpose he entered the dental school at Guy's Hospital and qualified L.D.S. General surgery attracted him so greatly however that he transferred to the medical school there and rapidly rose to the position of surgical registrar and took his F.R.C.S. From Guy's he went to the Sheffield Royal Hospital in 1903 as senior resident surgical officer. Three years later he was appointed to the honorary surgical staff and began his career as a consulting surgeon in Sheffield. He soon acquired a leading position in the city and surrounding districts; not only as an able operator but as one whose surgical opinion and judgment were exceptional. Whilst in no senses a specialist, his interest had for many years been chiefly in the surgery of the genito-urinary system, of which he had made a special study and upon which he was a recognised authority. For many years he was actively engaged as a clinical lecturer in anatomy and surgery, and for a few years before his retirement from the hospital at 60 he had held the chair of surgery in the university. As a teacher he was extremely popular and most effective. He had been external examiner in surgery at the Universities of Bristol and Birmingham, and at the time of his death held a

similar post at Liverpool. Perhaps his greatest pride was his election to the council of the Royal College of Surgeons some years ago. He was actually the first Sheffield surgeon to hold such a post, and the honour of his recent appointment as Bradshaw lecturer had been a source of great delight to him.

A deft and clever operator, he had that most valuable asset for every surgeon—an equable and indeed an imperturbable temperament. This equanimity of mind, writes a colleague, stood him in good stead also during the last few years of his life when he was successively laid up for many months, first with severe accidental burns of the hands and forearms which not only gave rise to great suffering but seriously threatened his future work as an operator, and again only last year with serious lung trouble which involved a major operation. Both these were faced with a calmness and patience which no doubt played a large part in his complete recovery. Simpson touched life at many points and thoroughly enjoyed them all. He was essentially a good mixer, happy in the society of old or young. He was widely read in the best literature, both French and English, and his literary taste was exceedingly good. His contributions to medical literature were comparatively few but were always sound and well written. A brave, manly heart, he was a trusted and trustworthy friend and a loyal colleague, whose work and example during the last thirty years in Sheffield has been of sterling value to numbers of his patients and students and a source of genuine delight to his personal friends.

He leaves a widow and two children, a son and a daughter.

EWING MOULD GLYNN WHITTLE

M.D. CAMB. AND DUBL., M.R.C.P.

Dr. Glynn Whittle, who died at his home in Liverpool on Jan. 18, was an authority on medical jurisprudence and obstetrics. He was the son of Dr. Ewing Whittle, who was lecturer in forensic medicine at Liverpool, and went to the Royal Institution School. At Cambridge he obtained first-class honours in the English and the mathematical tripos. He did his clinical work at St. Bartholomew's Hospital and at Trinity College, Dublin, and was placed first in the M.D. Dublin in 1877. In 1880 he took his M.R.C.P. and his M.D. Camb. He followed up these academic successes by studying at Oxford and Paris and visiting a number of continental hospitals. On his return to Liverpool he became physician to the Liverpool Lying-In Hospital and lecturer on midwifery there. He was also medical officer to the post office and medical examiner to the Board of Education, and up to his retirement a few years ago he was medical referee to the Liverpool magistrates. He had been a vice-president of the North of England Obstetric Society and president of the Liverpool Philomathic Society. In his young days Glynn Whittle took a keen interest in athletics and in later years he gained distinction as an archer.

Dr. Glynn Whittle leaves a widow, one son and one daughter.

WILLIAM McLORINAN

L.R.C.P.I.

Dr. McLorinan, senior physician to the Mater Infirmorum Hospital, Belfast, and for many years clinical lecturer and examiner in medicine at the Queen's University, died at Belfast on Feb. 7.

Born in Belfast and educated at St. Malachy's College, Belfast, and the Catholic University, Dublin, McLorinan qualified in 1899, obtaining the university gold medal for surgery and the silver medal for medicine. He practised for a time in Belfast, but in 1901 he forsook the town for the country and went into general practice at Castendall in the glens of Antrim. After some years as a country practitioner he returned to Belfast and was soon afterwards appointed visiting physician to the Mater Infirmorum. There his natural kindliness and cheerfulness of outlook endeared him to students and patients alike and he was an immediate success as a teacher and clinician. He possessed a ready wit that made the dullest subject acceptable, and was a born raconteur. As an examiner he was sympathetic and considerate, and even the most nervous candidate did not fear him. He was an active member of the Ulster medical society and was a justice of the peace for Belfast. Apart from his work McLorinan's main interests were golf and bridge. He was a well-known figure at the Newcastle Golf Club and was usually to be seen at the principal Irish race meetings. His exuberant vitality made it all the harder for him to curtail his activities when it became clear that he was suffering from angina, and for some time he had courageously carried on his work under the ever-present menace of attacks. The death of his friend Sir Robert Johnstone last October was a severe blow to him. "His death," writes a colleague, "is a great loss to the Mater Infirmorum Hospital. He was a man who was loved by all who knew him."

DR. AUGUSTE WIDMER

On Feb. 13 Dr. Auguste Widmer, founder and proprietor of the clinic Val Mont, near Territet, died in Lausanne in his 86th year. Dr. Widmer was born in Lausanne in 1853; his family came from the canton Aargau but had settled in Geneva. After studying at Basle, Leipzig and Kiel he began a general practice in a Vaudois village, later moving to Lausanne where he soon became very popular, chiefly amongst the many foreigners residing on the shore of Lac Léman. In 1884 he founded the Clinique La Metairie near Nyon. In 1898 he transferred his activities to the Clinique La Colline, near Territet, an institution specially designed for digestive and nervous diseases, where he worked with his life-long friend Dr. Turin. His success here encouraged him to found in 1904 the Val Mont, to which patients flocked from all over the world, many members from royal families (especially Belgian) coming under his care. His work was of high scientific standard, proof of which was the very complete medical library at the clinic which was often consulted by members of the faculty of Lausanne. Dr. Widmer had a fine collection of artistic treasures which in 1936 he presented to the fine arts gallery in Lausanne where a *salle Widmer* is under construction.

The late Prof. Okell.—In last week's obituary notice the date of Prof. Okell's appointment to the chair at University College Hospital should have been given as 1930. His observations on bacteræmia following extraction of septic teeth (which were published in our columns and have since been frequently quoted) were made in collaboration with Dr. S. D. Elliott, now of Cambridge.

". . . No institution has been so degraded and vulgarized as marriage; it would almost seem as though all the artifices known to a sensational Press and to a commercialized literature have been employed to emphasize every aspect of marriage except the duties of self-discipline which it offers. It is as certain as anything can be that, where families are voluntary, a community in which marriage is regarded as it is to-day in western civilization will die out."—Prof. A. M. Carr-Saunders, quoted in the *Times*, Feb. 20, 1939, p. 14.

PARLIAMENTARY INTELLIGENCE

AIR-RAID SHELTERS

ON Feb. 16 the House of Lords discussed the Government's policy in regard to the provision of bomb-proof shelters. Lord TEYNHAM said that the short-term policy of steel shelters now being carried out by Sir John Anderson was no doubt the quickest form of limited protection that could be organised in an emergency, but they must be careful not to underestimate its limitations. The steel shelters were bound to deteriorate from want of care and attention. He would like to see a long-term policy going hand-in-hand with the short-term one. Concrete pill-boxes might be erected in the suburban areas and the poorer two-story districts. These could be made permanent, and would give full protection against blast and splinter to many groups of families. But neither steel shelters nor concrete pill-boxes could be used in the congested areas of great cities, and it was unwise to delay the planning of deep shelters merely because emergency plans were now being considered. There might be a sudden overwhelming demand for the construction of deep shelters at a time when it would be difficult and dangerous to construct them. A survey should also be made of every large building and a notice placed on it indicating whether it would be safe to use as a shelter or not. The necessary deep bomb-proof shelters could be constructed within 3–5 months, according to the nature of the subsoil. Each unit should be self-contained, and should include a complete air-conditioning system, efficient drainage to prevent flooding, with means of preventing gas from entering the drains, and auxiliary electric-light and power plant.—Lord STRABOLGI warned the Government not to go to the other extreme once more and ignore the poison-gas peril. The Government had begun by concentrating on anti-gas devices, and now all the concentration was on anti-blast shelters. He believed there was still a great danger from poison-gas attacks. He hoped that the Government were not going to extremes with the policy of evacuation. If an enemy could persuade enough people to evacuate the towns and cities of this country he had won the war. The thing to do was to provide sufficient shelter, and only to evacuate the people who had no vital duties to perform.

Lord HORDER said he was one of those who believed that in the possible event of war no really adequate security, physical or moral, could be afforded to those who continued their work in a dangerous area, except by some form of bomb-proof shelter. He had a special reason for rising to speak, because there would be one body who must inevitably work in a danger zone—namely, the doctors. An intensive air-raid must paralyse for a time all activity, even on the part of medical men and women at a first-aid station. In some quarters there was a belief that as many casualties as possible should be removed forthwith from the danger centre to the less dangerous parts of the city, the periphery. But owing to the congestion of thoroughfares and the blocking of streets by debris a large number of casualties would have to be treated where they arose, and the doctors must be there to treat them. That was the whole meaning of a first-aid station or hospital. He therefore entered a special plea that the first-aid stations must be in some bomb-proof place, and he could think of no place adequate for this purpose except a fairly deep underground shelter. In the treatment of air-raid casualties the same principle held as in the treatment of any disease or any disability; prevention was better than cure. Therefore Lord Teynham's arguments in favour of deep shelters for the protection of the citizen against casualties must necessarily interest the medical profession. The question of money could not reasonably enter into this matter. At the present moment 95 per cent. of medical men and women in this country were already enrolled by the British Medical Association. The register was now being taken over by the Minister of Health, who would earmark from that register doctors for special purposes. The number of these experts available was limited. The first air-raids must necessarily count among their casualties a large number of doctors. He was not speaking on their behalf; he was speaking economically. These doctors were valuable citizens, more valuable prospectively in the event of war than they were today. The replacements were limited. Quite apart from that their work would only be possible if carried on underground. Not only the doctors but also their valuable equipment, which it would be difficult to replace in an emergency, must be in a place of adequate shelter. Moreover, the morale of the patient was an important asset in obtaining a successful result from treatment. Therefore the question of money seemed to be incongruous in relation to the particular plea he was entering. He urged that medical men earmarked for first-aid duties, their patients, the casualties, and their indispendable equipment should at least be freed from any further discussion of short- or long-term policy, above ground and below ground. He hoped that the Minister of Health would quite shortly say to his colleagues in the Government: "Be the policy long or short, I must have my doctors and their work underground in the danger areas, and therefore let me begin forthwith to prepare for this necessity."

The Earl of BIRKENHEAD, replying for the Government, said that in their view any complete policy of shelter against attack by high explosive bombs must be three-fold. It must include protection for people in their homes, protection for people at their places of work, and protection for people who were caught in the streets. The question of underground dressing-stations, raised by Lord Horder, was being considered by the Minister of Health. None of the Great Powers on the Continent had gone in for deep shelters for their populations on a large scale. The problem was far more complex than was generally supposed, and it had been under close and continuous study by the A.R.P. department. People must remain as far as possible on their jobs in time of war, and a deep-shelter policy would raise difficulties in keeping people at their work. These shelters would have to be large, and if they turned out not to be really bomb-proof, because of the progress of aeronautical science or improvements in weapons, they might become death-traps on a gigantic scale.

NOTES ON CURRENT TOPICS

Unemployment and Malnutrition

In the House of Commons on Feb. 16 Mr. ARTHUR GREENWOOD, in moving a vote of censure on the Government for its failure to find a solution of the unemployment problem, asked the Government to answer two specific questions: first, did they intend to take any further steps to ameliorate the lot of the unemployed; and, secondly, had they any considered plans to provide socially useful work for these people? We were getting to a position now where we should always have a standing army of 2,000,000 unemployed. Mr. Greenwood quoted a recent book entitled "Men Without Work," which he said was a report by outstanding economists and social students made to the Pilgrim Trust, as saying that in most unemployed families the parents, and in particular the wives, bore the burden of want, and in many instances were literally starving themselves in order to feed and clothe the children reasonably well. He also referred to an investigation by Dr. J. L. Halliday of Glasgow, who examined a group of 1000 insured sick people and found that in about a third of the cases the reason for the incapacity was not organic but psychoneurotic.—Mr. ERNEST BROWN, Minister of Labour, said that it was not correct to say that we had a standing army of 2,000,000 unemployed, or anything

like that figure. The last official table showed that of the total of 2,039,000 unemployed 289,000, or 15 per cent. had been without work for a year or more; 1,436,000, or 77 per cent. for less than six months; 1,187,000, or 63 per cent. for less than three months; and 906,000, or 48 per cent. for less than six weeks. The matter resolved itself into two problems: whether or not they could supply, in the absence of a revival of trade, a chance for the unemployed in their own area with new industries; and whether they could provide untrained men with skill to enable them to seize the chance of work when it came along.

QUESTION TIME

WEDNESDAY, FEB. 15

Colonial Veterinary Service

Mr. MARKHAM asked the Secretary of State for the Colonies whether he was aware of the disability under which the colonial veterinary service was suffering as the result of the continued lack of an adviser in animal health at the Colonial Office; and whether he could see his way to make such an appointment forthwith, in accordance with the recommendation of the Lovat Committee.—Mr. MALCOLM MACDONALD replied: The question of reviving the appointment of adviser on animal health, which has been in abeyance since 1932, is at present under consideration. If my hon. friend will repeat his question in a fortnight's time I will be in a position to give him a definite reply.

Dependants of Insured Persons

Dr. SUMMERSKILL asked the Minister of Health whether he would indicate when he proposed to implement the promise, made by successive Ministers of Health, to include the dependants of insured workers under the National Health Insurance Acts.—Mr. BERNAYS, parliamentary secretary to the Ministry of Health, replied: I am not aware of any promise to the effect referred to by the hon. Member having been given by any Minister of Health.

THURSDAY, FEB. 16

University Education in War-time

Mr. GEORGE GRIFFITHS asked the Parliamentary Secretary to the Board of Education what arrangements the Government had made for university education in the event of war.—Mr. KENNETH LINDSAY replied: Representatives of the universities are, I understand, in consultation with my right hon. friend, the Lord Privy Seal, with a view to preparing plans to enable university education to continue so far as may be appropriate in time of war, and for securing those special services to war-time needs which the universities may be able to render.

Medical Expenses of Evacuated Children

Mr. JAMES GRIFFITHS asked the Minister of Health whether those who accepted the care of children under the evacuation scheme would be reponsible, under the schedule of payments, for any medical expenses which might be necessary in case of illness of the children.—Mr. ELLIOT replied: No, Sir.

Voluntary Hospitals and the L.C.C.

Mr. DAVID ADAMS asked the Minister of Health whether the conference about to be held under his aegis, between the London County Council and the voluntary hospitals of London, was to work on the basis of preparing recommendations applicable to hospital systems throughout the country; and what progress had been made in the carrying out of Lord Sankey's recommendation that the voluntary hospitals of the country should form themselves into an association, regionally organised, for the purposes of joint action.—Mr. ELLIOT replied: The conference which was held recently between representatives of the King Edward VII Hospital Fund, the Voluntary Hospitals Committee for the County of London, and the London County Council, was of an exploratory character and no decisions were taken. It did not cover hospitals outside London. A committee of the British Hospitals Association is now actively engaged in formulating a scheme of regional organisation which, I understand, is meeting with general approval. According to my information the committee hope to issue a statement in about six months' time.

County Hospitals and Maternity Cases

Dr. SUMMERSKILL asked the Minister of Health whether he was aware that expectant mothers who desired to enter a county hospital were required to submit to the old poor-law procedure in those counties which had not appropriated the hospitals under the 1929 Local Government Act; and whether, as this was proving a deterrent to women who desired to enter a hospital for their confinement, he would take steps to get these county authorities to waive the regulations in these particular cases.—Mr. ELLIOT replied: It is the constant policy of my department to secure appropriation wherever possible, and if the hon. Member has in mind any particular cases of difficulty such as are referred to in the latter part of her question I shall be happy to look into them on being furnished with details. In general I should consider the waiving of the regulations as a less satisfactory solution than the appropriation of the hospital.

Diphtheria Immunisation

Mr. LEACH asked the Minister of Health if his attention had been drawn to the case of 25 children attending the Irish College at Ring, Waterford, who contracted tuberculosis, from which one had since died, as the result of inoculation against diphtheria by a prophylactic supplied by the Wellcome Foundation, of Snow Hill Buildings, London; if this prophylactic was the same as that freely used in this country; and what steps he was taking to prevent a similar occurrence here.—Mr. ELLIOT replied: The reply to the first and second parts of the question is in the affirmative. The outbreak in Ireland took place in November, 1936, and, as the hon. Member was informed in reply to a question on June 24, 1937, careful inquiry concerning the prophylactic used was made by medical officers of my department as soon as the matter was brought to my notice.[1] As regards the last part, the manufacture for sale in, and the importation into, this

1 Question Time (June 24, 1937): *Diphtheria prophylactic.*—Mr. Leach asked the Minister of Health whether he was aware that an Irish jury attributed a death from generalised tuberculous infection following prophylactic inoculation against diphtheria to the presence of tubercle germs in a bottle of prophylactic supplied by the English firm of chemists who supplied most of the diphtheria prophylactic used by public authorities in England and Wales; and whether he would have a searching inquiry made into this matter in view of the seriousness of the allegation made.—Mr. Bernays, parliamentary secretary to the Ministry of Health, replied: I have seen a press report to the effect stated in the first part of the question. As to the second part, careful inquiry concerning the prophylactic supplied by the firm referred to has already been made by medical officers of my department and the result leads to the conclusion that no tubercle bacilli were present. As the matter is somewhat technical I will send the hon. Member further particulars.

The further particulars sent to Mr. Leach later by the Minister of Health were as follow: (1) The matter was brought to the notice of the Deputy Medical Officer of the Ministry in April, 1937, by the Director of the Wellcome Research Laboratories. As it appeared that the substance used (Diphtheria Prophylactic T.A.F.) was manufactured under licence issued by the Ministry of Health under the Therapeutic Substances Act, 1925, immediate steps were taken to conduct an investigation. (2) The Medical Officer of the Ministry who specialises in questions relating to therapeutic substances under the act of 1925 made a close examination of the methods employed at the Burroughs Wellcome laboratories in the manufacture of the prophylactic used. This satisfied him that all possible precautions are taken to prevent any mistake occurring in the processes, including the examination for sterility of samples of the batch being manufactured at different stages of its preparation, and that the substitution of a live tubercular vaccine for the Diphtheria Prophylactic (T.A.F.), or the introduction of tubercle bacilli into the prophylactic, was not possible. (3) Samples of the only batches (Nos. 512 and 521) of the prophylactic from which the doses used in this case could have been derived have been tested bacteriologically at the Ministry of Health pathological laboratory, and no tubercle bacilli or other organisms were found. Moreover, tubercle bacilli experimentally introduced into samples of the two batches were quickly killed by the disinfectant present. (4) The batches in question, Nos. 512 and 521, consisted of no less than 5000 and 8000 doses respectively and have been almost completely used up in various parts of the British Isles without complaints from any other quarter of ill effects from their use. (5) Messrs. Burroughs Wellcome and Co. have had an independent test made of samples of the two batches by Prof. Bigger of the University of Dublin, by whom also their laboratories have been inspected. Prof. Bigger's conclusions confirm those of the Ministry's medical officers. (6) The above evidence points strongly to the conclusion that the cause of the fatality is not to be found in the prophylactic supplied.

country of diphtheria prophylactic are strictly controlled under the Therapeutic Substances Act, 1925.

Medical Inspection at Croydon Airport

Sir HENRY MORRIS-JONES asked the Minister of Health whether there was a port medical officer at Croydon airport; and what system of inspection was in force there for the prevention of the entry of cases of infectious diseases in this country.—Mr. ELLIOT replied: The duties of medical officer at the Croydon Airport are carried out by members of the medical staff of the town council under the general control of the medical officer of health and the services of a medical officer are available for the airport at all times. With regard to the second part of the question, the measures to be taken to prevent the introduction of infectious diseases are prescribed in the Public Health (Aircraft) Regulations, 1938, the responsibility for the administration of which rests with the town council.

Sir H. MORRIS-JONES: Could not my right hon. friend consider appointing one or two whole-time medical officers specially for the airport?—Mr. ELLIOT: I think that the local authority is carrying out its duties satisfactorily.

Removal from Insanitary Premises

Mr. GEORGE GRIFFITHS asked the Minister of Health whether any local authority had been given specific statutory power to remove any infirm or physically incapacitated person who was suffering from a grave chronic disease, or who resided on premises which were unsuitable owing to neglect on the part of the occupier or owing to insanitary conditions.—Mr. ELLIOT replied: According to my information the power to which the hon. Member refers has been allowed by Parliament to some seventy local authorities in private acts.

MONDAY, FEB. 20

Cheaper Milk for Mothers and Children

Sir ALFRED KNOX asked the Minister of Agriculture whether the Government proposed to introduce a scheme to provide cheaper milk for mothers and young children.—Sir REGINALD DORMAN-SMITH replied: As already announced the Government hope to bring forward a scheme, in coöperation with the industry, for a reduction in the price of liquid milk to local authorities for the purpose of their maternity and child welfare arrangements. Negotiations have taken place to this end with the Milk Marketing Board and representatives of the distributors, but I am not yet in a position to state when the proposed scheme will be introduced.

Varying Risks of Industry

Mr. GORDON MACDONALD asked the Home Secretary the percentage of persons to whom compensation was paid in consequence of accident, or industrial disease, in shipping, factories, docks, mines, and quarries during the latest year for which figures were available.—Mr. GEOFFREY LLOYD replied: The returns collected by the Home Office of workmen's compensation paid in these industries in 1937 show that the numbers of cases in which compensation was paid bore the following percentages to the numbers employed: shipping 5·93; factories 3·97; docks 11·27; mines 23·23; quarries 10·45. The cases include cases continued from previous years.

Medical Referees in Scotland

Mr. ROBERT GIBSON asked the Home Secretary how many medical referees in Scotland, under the Workmen's Compensation Act, had been dismissed from office or had not had their appointments renewed, respectively, during the last few years.—Mr. GEOFFREY LLOYD (under-secretary, Home Office) replied: During the past five years four appointments which have expired have not been renewed. No referee has been dismissed.

TUESDAY, FEB. 21

Silicosis in South Wales

Mr. JAMES GRIFFITHS asked the Secretary for Mines if his attention had been drawn to the continued increase in the incidence of silicosis in the South Wales coalfield as revealed by the fact that in 1938 out of 434 certificates of disablement by silicosis 382 were issued to miners in the South Wales coalfield; and if he could indicate what steps were being taken by His Majesty's inspectors in the Cardiff and Swansea divisions to prevent silicosis.—Captain CROOKSHANK replied: I am aware of the position in regard to silicosis in South Wales and it is a matter for grave concern. Continuous efforts are being made to improve the conditions, notably as regards ventilation generally and the suppression of dust during drilling and after blasting in stone, and the mitigation of dust on the travelling roads. A further recent development is the introduction in substantial numbers of the new Mark IV respirator sponsored by the Government.

Mr. MAINWARING asked the Secretary for Mines if he could provide a statement showing the average age, when certified, of miners suffering from silicosis, and the average duration before death ensued after certification for the period 1925 to date.—Captain CROOKSHANK replied: Particulars are available only since June 1, 1931. During the period from that date to Dec. 31, 1938, the average age of coalminers when certified as disabled from silicosis was approximately 50 years. Since June 1, 1931, disablement certificates have been issued in about 1850 cases, and of these cases about 220 have subsequently been certified as having died from silicosis. As there are more than 1600 cases in which no certificate of death from silicosis has been issued, it is not possible to give any figure for the average period which elapses between the issue of the disablement and death certificates.

MEDICAL NEWS

University of Oxford

The hon. degree of D.Sc. is to be conferred on Dr. Pio del Rio-Hortega, formerly director of the National Institute of Cancer and of the Laboratory of Normal and Pathological Histology in Madrid, and now a reader in neuropathology under the Nuffield scheme.

University of Birmingham

Four William Withering lectures will be given by Dr. Peyton Rous of the Rockefeller Institute for Medical Research, New York, on March 9, 16, 21, and 23 at 4 P.M. in the medical school of the Hospitals Centre. He will speak on present aspects of the cancer problem. On March 28 and April 4 at 4 P.M., Dr. James Smellie, physician to the Birmingham United Hospital and to the Children's Hospital, will deliver two Ingleby lectures on infantile diarrhœa. All these lectures will be open to members of the medical profession and to students of medicine.

University of Leeds

A lectureship in medical ethics and conditions of general practice has lately been instituted at the university and a short course of lectures will be given to students during their final year.

The council have appointed Dr. W. S. Macdonald to the lectureship.

Dr. Macdonald graduated M.B. at the University of Edinburgh in 1921 and obtained his D.P.H. in 1923. He practises in Leeds where he is treasurer of the panel committee and chairman of the public medical service. He is also a justice of the peace.

University of Glasgow

The first of a short course of lectures on some aspects of medical ophthalmology will be given on March 7 at 4.30 P.M. by Prof. A. J. Ballantyne, who will speak on the eye in disorders of the blood and blood-forming organs. Other lectures will be given by Dr. I. Chesar Michaelson, Dr. John Marshall and Dr. A. M. Wright Thomson. The lectures will be held in the Tennent Memorial Building, Church Street, Glasgow and all members of the medical profession are invited to attend.

International Congress of Military Medicine and Pharmacy

Representatives of 35 countries will attend the tenth International Congress of Military Medicine and Pharmacy which is to be held in Washington from May 7 to 15. Information about the meeting may be had from the secretary-general of the congress, Army Medical Library, Washington, D.C.

King's College Hospital

The next meeting of the Listerian Society will be held at the hospital on Wednesday, March 1, at 8.15 P.M., when Dr. Halliday Sutherland will speak on the history of tuberculin.

Course in Psychological Medicine

The second part of the course of instruction for the D.P.M., which is being given at the Maudsley Hospital, will begin on Feb. 27. Further information may be had from the hon. director of the medical school, The Maudsley Hospital, Denmark Hill, London, S.E.5.

Hunterian Society

A gold medal is awarded annually by this society for the best essay written by a general practitioner. The subject for 1939 is the treatment of obesity in general practice, and for 1940 the treatment of tonsillar infections in children. The medal for 1938 was awarded to Dr. J. E. Outhwaite of Yeadon, Leeds, for his essay on the management of inoperable malignant disease in general practice. Any registered practitioner resident within the British Empire is eligible. A copy of the rules may be had from the hon. secretary of the society, Mr. A. E. Roche, 140, Harley Street, London, W.1.

Medical Group of Left Book Club

Prof. Millais Culpin took the chair on Jan. 26, when Dr. Harold Balme spoke to the first meeting of this group. Dr. Balme appealed for medical help for the Chinese people, and the meeting elected a committee for this purpose, whose first task will be to arrange for some of the refugee doctors who have returned from Spain to continue their work in China, where their experience of war conditions should prove of value. Those interested in the China medical aid committee of the group should write to Dr. Hill, 162, Kingston Road, London, S.W.19.

The next meeting of the group will be held at 8.30 P.M. on Wednesday, March 1, at 101, Great Russell Street, W.C.1, when Mr. Aleck Bourne will open a discussion on some social aspects of abortion. The group intends to meet on the first Thursday of each month, and further information may be had from Dr. M. T. Parker, 207, Dumbarton Court, Brixton Hill, S.W.2.

Society of Apothecaries of London

A livery dinner of the society was held at Apothecaries Hall on Feb. 21. In proposing the Presidents of the Royal Colleges Dr. Reginald Hayes, the master, recalled the long and close association between the society and these colleges. The physicians' president was to accompany the apothecaries on their annual search for adulterated medicine in the local shops. The surgeons' president was even more closely associated with the society, for he had been its master last year. In reply, Mr. Hugh Lett said that the relations of his college with the apothecaries had always been friendly; for a long time licentiates of the society went on to take the M.R.C.S. because their licence did not cover the practice of surgery. The society was the first licensing body to insist on a definite standard of preliminary education and evidence of an adequate course of study. It was the only licensing body in the world which was also a city company (and indeed the only city company to be called a society). Mr. Vernon Cargill, senior warden, proposed The Guests, coupled with the names of Prof. W. Fletcher Shaw, president of the Royal College of Obstetricians and Gynæcologists, and of Mr. J. L. P. Denny, master of the Barbers' Company. From the barbers, he said, the surgeons were born, and the Barbers' Company had many relics of the connexion which their offspring might envy; for example, the magnificent Holbein of Henry VIII presenting the company's charter. Ten years ago Prof. Fletcher Shaw and the late Prof. Blair-Bell had conceived and given birth to a college, now entitled to be called royal, with fellows, members, and diplomates to the number of 800, which had already justified itself by the part it had played in the Midwives Act and in the development of anæsthesia in midwifery. In reply, Prof. Fletcher Shaw said the college had grown quicker than could possibly have been anticipated, a proof that it had met a real need. Mr. Denny remarked with approval that the apothecaries were now the only city company to practise their trade.

German Radiological Society

The thirtieth congress of this society will be held at Stuttgart from May 24 to 27. Further information may be had from Dr. A. Reisner, Herdweg, 74A, Stuttgart-N.

British Medical Association

The annual address to senior students and newly qualified practitioners arranged by the metropolitan counties branch of the association will be given on Tuesday, March 14, at B.M.A. House, Tavistock Square, W.C.1, at 5.30 P.M. Mr. W. McAdam Eccles will speak on pitfalls in the final examination and the first year of practice. Cards of admission may be had from the secretary of the branch at B.M.A. House.

Parkes Memorial Prize

No award of this prize has been made for 1938. In awarding the prize for 1939 first consideration will be given to original articles or reports of investigations on naval or military hygiene which have been published in a medical journal. The prize, which consists of a gold medal and £30, is open to medical officers of the Royal Navy, Army, and Indian Army, with the exception of the teaching staffs of the Royal Naval Medical College, Greenwich, the Royal Army Medical College, London, and the Army School of Hygiene, Aldershot. Further information may be had from the War Office.

Chadwick Lectures

On Tuesday, Feb. 28, at 5.30 P.M., Prof. M. Greenwood, F.R.S., will give a Chadwick lecture at 26, Portland Place, London, W.1. He will speak on occupational and economic factors of mortality. At the same time on March 14, at 90, Buckingham Palace Road, S.W.1, Dr. J. B. Howell will discuss the preservation of child life. At the Chelsea Physic Garden, Swan Walk, S.W.3, on June 15 at 5.30 P.M., Prof. R. Ruggles Gates, F.R.S., will lecture on plant genetics and human welfare. Further particulars of the lectures may be had from the secretary of the Chadwick Trust, 204, Abbey House, S.W.1.

Vacancies

For further information refer to the advertisement columns

*Albert Dock Hosp., Alnwick Road, E.*16.—Second res. M.O., at rate of £110.
Altrincham, St. Anne's Hosp.—Res. surg. O., at rate of £200.
Bath, Royal United Hosp.—H.S., at rate of £150.
*Bearsted Memorial Hosp., Underwood Street, E.*1.—Res. M.O., at rate of £100.
Birmingham, Dudley Road Hosp.—Jun. M.O., at rate of £200.
Birmingham, Romsley Hill Sanatorium.—Res. asst. M.O., £240-£275.
*British Postgraduate Medical School, Ducane Road, W.*12.—Res. anæsthetist, at rate of £150.
Cambridge, Addenbrooke's Hosp.—Res. anæsthetist and emergency officer, at rate of £130.
Canterbury, Kent and Canterbury Hosp.—H.S., at rate of £125.
*Central London Throat, Nose, and Ear Hosp., Gray's Inn Road, W.C.*1.—Third res. H.S., at rate of £75.
*Central Midwives Board, 23, Great Peter Street, Westminster, S.W.*1.—Supernumerary examiners.
*Charing Cross Hosp., W.C.*2.—Surg. reg., £150. Also registrar to fracture clinic, at rate of £100.
Chester Royal Infirmary.—H.P., H.S., also H.S. to ear, nose and throat, &c., dept., each £150.
*Connaught Hosp., E.*17.—Hon. physician.
Cornwall County Council Education Dept.—School medical inspector, £600.
Devonport, Prince of Wales's Hosp.—Sen. and jun. H.S., at rate of £130 and £120 respectively.
*Dreadnought Hosp., Greenwich, S.E.*10.—H.S., at rate of £110.
Dublin, St. Anne's Skin and Cancer Hosp., Northbrook Road.—Asst. radiologist, £300–£400.
Dundee Royal Infirmary.—Hon. asst. visiting obstetrician and gynæcologist.
Ealing, King Edward Memorial Hosp.—Res. M.O., at rate of £275.
Eastbourne County Borough.—Deputy M.O.H. and deputy school M.O., £600.
Exeter, Wonford House.—Asst. M.O., £350.
*General Lying-in Hosp., York Road, Lambeth, S.E.*1.—Jun. res. M.O. and anæsthetist, at rate of £100.
*Golden Square Throat, Nose and Ear Hosp., W.*1.—Hon. anæsthetist. Registrar. Also clin. asst.
Guildford, Royal Surrey County Hosp.—Two H.S.'s to spec. depts., each at rate of £150.
Hertford County Hosp.—H.P., at rate of £150.
*Hosp. for Consumption and Diseases of the Chest, Brompton, S.W.*3.—H.P. for Frimley Sanatorium, £100.
Hull, Beverley Road Institution.—Asst. M.O., £350.
*Invalid and Crippled Children's Hosp., Balaam Street, E.*13.—H.P., £100.

Iraq Government.—Ear, nose and throat specialist, Iraq Dinars 150 per mensem.
Isleworth, West Middlesex County Hosp., Twickenham Road.—Cas. M.O., £350.
Kettering and District General Hosp.—H.P., at rate of £150.
London County Council.—Asst. dist. M.O., £150.
London Hosp., E.1.—Surg. first asst. and registrar, £300. Also res. anæsthetist, £150.
London Lock Hosp., 283, Harrow Road, W.9.—Res. M.O. to all depts., at rate of £175.
London University.—Univ. chair of medicine at St. Mary's Hosp. medical school, £2000. Also studentship in physiology, £100.
Manchester, Ancoats Hosp.—Cas. O., £150.
Manchester, Crumpsall Hosp.—Res. surg. O., £400.
Manchester University.—Lecturer in human physiology.
Margate, Royal Sea Bathing Hosp.—H.S., at rate of £200.
Melton and Belvoir Rural District Council, &c.—M.O.H., £800.
Norwich, Norfolk and Norwich Hosp.—Hon. physician.
Otago University, New Zealand.—Lady King Scholarship, £600.
Oxford University.—First asst. in dept. of anæsthetics, £600.
Plymouth, Prince of Wales's Hosp., Lockyer Street.—H.S., at rate of £150.
Poplar Hosp., East India Dock Road, E.14.—Hon. radiologist.
Prince of Wales's General Hosp., N.15.—Hon asst. radiologist.
Princess Beatrice Hosp., Earl's Court, S.W.5.—Cas. O. and obstet. H.S., at rate of £110.
Princess Elizabeth of York Hosp. for Children, Shadwell, E.1.—H.P., at rate of £125.
Queen's Hosp. for Children, Hackney Road, E.2.—Dental surgeon, £1 7s. 3d. per session.
Richmond Royal Hosp., Surrey.—Res. M.O., £200.
Royal Cancer Hosp., Fulham Road, S.W.3.—Asst. physician. Radium therapeutist, £650. Asst. radiologist for therapeutic dept. and asst. radiologist to diagnostic dept., each £350. Also surg. reg. and med. reg., each £150.
Royal Eye Hosp., St. George's Circus, S.E.1.—Sen. H.S. and two asst. H.S.'s, at rate of £150 and £100 respectively.
Royal Free Hosp., Gray's Inn Road, W.C.1.—Res. cas. O., at rate of £150.
Royal London Ophthalmic Hosp., City Road, E.C.1.—Outpatient officers, £150–£300. Also first asst. M.O.'s, £150.
Royal Masonic Hosp., Ravenscourt Park, W.6.—Two res. surg. O's, each at rate of £250.
Royal Naval Medical Service.—M.O.'s.
Royal Northern Hosp., Holloway, N.7.—Pathological registrar, £200. Also H.P., at rate of £70.
Royal Waterloo Hosp. for Children and Women, Waterloo Road, S.E.1.—Anæsthetist, £100.
St. Bartholomew's Hosp., E.C.1.—Dental H.S., £80.
St. George's Hosp., S.E.1.—Surgeon to ear, nose, and throat dept.
St. Peter's Hosp. for Stone, &c., Henrietta Street, Covent Garden, W.C.2.—H.S., at rate of £75.
Sheffield, Royal Infirmary and Hosp.—Neurological surgeon.
Smethwick County Borough.—Sen. asst. M.O.H., and asst. school M.O., £650.
South London Hosp. for Women, Clapham Common, S.W.4.—H.P., at rate of £100.
Stoke-on-Trent, Stallington Hall Certified Institution, Blythe Bridge.—Med. supt., £800.
Tancred's Studentships.—Each £100.
Tilbury Hosp., Essex.—Med. supt., £200. Also H.S., at rate of £140.
Wakefield, Clayton Hosp. and Wakefield General Dispensary.—Res. surg. O. £250.
Walsall County Borough.—Asst. M.O.H., £500.
Warrington, Borough General Hosp.—Res. M.O., £225.
West Riding County Council.—Supervisor of meals, £300.
York City.—Asst. M.O.H., £350.
Medical Referee under the Workmen's Compensation Act, 1925, for the Evesham (Circuit No. 22), Banbury and Shipston-on-Stour (Circuit No. 36), Alcester, Stratford-on-Avon and Warwick (Circuit No. 53) County Court Districts. Applications should be addressed to the Private Secretary, Home Office, Whitehall, London, S.W.1, before March 14.

Medical Diary

Feb. 27 to March 4

SOCIETIES

ROYAL SOCIETY OF MEDICINE, 1, Wimpole Street, W.1.
MONDAY.
Odontology. 8 P.M., Dr. S. D. Elliott: Bacteræmia and Oral Sepsis. Mr. S. Wilson Charles: The Madder Method and the Modern Conception of the Growth of the Jaws.
TUESDAY.
Medicine and United Services. 8.30 P.M., Prof. B. A. McSwiney, Colonel D. T. Richardson, Group-Captain R. W. Ryan and Surgeon Lieut.-Commander L. J. Corbett: Assessment of Physical Fitness.
WEDNESDAY.
History of Medicine and Clinical. 5 P.M., Sir Humphry Rolleston and Dr. G. de Bec Turtle: History of Clinical Teaching in Great Britain.
Surgery. 8.30 P.M., Miss Catherine Lewis, Miss D. C. Staveley and Miss E. H. Rockstro: The Differential Diagnosis and Treatment of Ureteric Calculi.
FRIDAY.
Otology. 10.30 A.M. (cases at 9.30 A.M.), Mr. Philip Scott and Mr. Lionel Colledge: Malignant Disease of the Ear (excluding Pinna).
Laryngology and Odontology. 5 P.M. (cases at 4 P.M.), Mr. A. T. Pitts, Mr. A. J. Wright and Mr. E. A. Hardy: Antral Infection of Dental Origin.
Anæsthetics. 8.30 P.M., Dr. Ronald Jarman: Deaths under Anæsthesia from 1921 to the Present Date.

MEDICAL SOCIETY OF LONDON, 11, Chandos Street, W.1.
MONDAY.—8.30 P.M., Mr. W. Rowley Bristow and Mr. T. P. McMurray: Principles of Modern Treatment of Fractures of the Extremities.
WEDNESDAY.—9 P.M., Prof. G. Grey Turner: Surgery of the Gall-bladder and Bile-ducts. (Second Lettsomian lecture.)
HUNTERIAN SOCIETY.
MONDAY.—9 P.M. (Mansion House, E.C.4), Mr. Cedric Lane-Roberts: A Plea for the Woman in Gynæcology and Obstetrics. (Hunterian oration.)
WEST LONDON MEDICO-CHIRURGICAL SOCIETY.
FRIDAY.—8.30 P.M. (De Vere Hotel, Kensington, W.8), Dr. E. H. Hudson, Mr. Cecil Joll and Mr. A. Simpson-Smith: Pre- and Post-operative Treatment.

LECTURES, ADDRESSES, DEMONSTRATIONS, &c.

ROYAL COLLEGE OF PHYSICIANS, Pall Mall East, S.W.1.
TUESDAY.—5 P.M., Dr. Donald Stewart: Industrial Incapacity and Modern Medicine. (Last Milroy lecture.)
THURSDAY.—5 P.M., Dr. H. P. Himsworth: Diabetes Mellitus. (First Goulstonian lecture.)
CHADWICK LECTURE.
TUESDAY.—5.30 P.M. (26, Portland Place, W.1.), Prof. M. Greenwood, F.R.S.: Occupational and Economic Factors of Mortality.
TAVISTOCK CLINIC, Malet Place, W.C.1.
MONDAY.—4.30 P.M., Dr. H. V. Dicks: Delinquency and its Psychological Treatment.
THURSDAY.—4.30 P.M. Dr. T. W. Mitchell: The Psychoses.
BRITISH POSTGRADUATE MEDICAL SCHOOL, Ducane Road, W.12.
TUESDAY.—4.30 P.M., Dr. Levy Simpson: Diseases of Endocrine Glands.
WEDNESDAY.—Noon, clinical and pathological conference (medical). 2 P.M., Prof. J. H. Dible: The Diagnostic Pathology of Tumours. 3 P.M., clinical and pathological conference (surgical). 4.30 P.M., Prof. E. C. Dodds: Hormones in Relation to Medicine and Pathology.
THURSDAY.—2.15 P.M., Dr. Duncan White: radiological demonstration. 3.30 P.M., Dr. J. M. Robson: The Ovarian Hormones.
FRIDAY.—2 P.M., clinical and pathological conference (obstetrics and gynæcology). 2.30 P.M., Mr. C. Price Thomas: Empyema and Abscess of the Lung.
Daily, 10 A.M. to 4 P.M., medical clinics, surgical clinics and operations, obstetrical and gynæcological clinics and operations.
HOSPITAL FOR SICK CHILDREN, Great Ormond Street, W.C.1.
THURSDAY.—2 P.M. Mr. Denis Browne: When and How to Give a Blood Transfusion. 3 P.M., Dr. W. G. Wyllie: Continued Fever of Obscure Origin.
Outpatient clinics daily at 10 A.M. and ward visits at 2 P.M.
NATIONAL HOSPITAL, Queen Square, W.C.1.
MONDAY.—Mr. G. Elmquist: demonstration of remedial exercises.
TUESDAY.—D. J. St. C. Elkington: Forms of Progressive Muscular Atrophy (1).
WEDNESDAY.—Dr. F. M. R. Walshe: clinical demonstration.
THURSDAY.—Mr. G. Jefferson: Head Injuries (2).
FRIDAY.—Dr. E. A. Carmichael: Deficiency Diseases (3).
Outpatient clinic daily at 2 P.M.
ST. GEORGE'S HOSPITAL, S.W.1.
THURSDAY.—5 P.M., Dr. Macdonald Critchley: neurological demonstration.
WESTMINSTER HOSPITAL, Horseferry Road, S.W.1.
TUESDAY.—5 P.M. (medical school), Dr. S. P. Meadows Intracranial Tumour. Mr. E. P. Brockman: Gas Gangrene.
CENTRAL LONDON THROAT, NOSE, AND EAR HOSPITAL, Gray's Inn Road, W.C.1.
FRIDAY.—4 P.M., Mr. W. G. Scott-Brown: Allergy.
HAMPSTEAD GENERAL AND NORTH-WEST LONDON HOSPITAL, N.W.3.
WEDNESDAY.—4 P.M., Mr. Arthur Gray: Difficulties in Gynæcological Diagnosis.
LONDON SCHOOL OF DERMATOLOGY, 5, Lisle Street, W.C.2.
TUESDAY.—5 P.M., Dr. J. A. Drake: Treatment in Diseases of the Skin. (Chesterfield lecture.)
ST. JOHN CLINIC AND INSTITUTE OF PHYSICAL MEDICINE, Ranelagh Road, S.W.1.
FRIDAY.—3.30 P.M., Dr. Philip Ellman: Drug Treatment in the Rheumatic Diseases.
SOUTH-WEST LONDON POST-GRADUATE ASSOCIATION.
WEDNESDAY.—4 P.M. (St. James' Hospital, Ouseley Road, S.W.12), Dr. C. E. Lakin: demonstration of medical cases.
FELLOWSHIP OF MEDICINE AND POSTGRADUATE MEDICAL ASSOCIATION, 1, Wimpole Street, W.1.
MONDAY to SATURDAY.—ROYAL WATERLOO HOSPITAL, Waterloo Road, S.E.1, all-day refresher course in medicine, surgery, and gynæcology.—ST. MARY'S HOSPITAL, Paddington, W.2, Tues. and Thurs., 8 P.M., clinical and pathological course for M.R.C.P.—BROMPTON HOSPITAL, S.W.3, M.R.C.P. course in chest diseases (5.15 P.M., twice weekly).—MEDICAL SOCIETY OF LONDON, 11, Chandos Street, W.1, Mon., Wed., and Fri., 5.15 P.M., primary F.R.C.S. physiology course.
LEEDS GENERAL INFIRMARY.
TUESDAY.—3.30 P.M., Mr. Digby Chamberlain: Surgical Conditions of the Spleen.
MANCHESTER ROYAL INFIRMARY.
FRIDAY.—4.15 P.M., Dr. A. Ramsbottom: medical cases.
GLASGOW POST-GRADUATE MEDICAL ASSOCIATION.
WEDNESDAY.—4.15 P.M. (Western Infirmary), Dr. A. D. McLachlan: Skin Diseases.

NOTES, COMMENTS, AND ABSTRACTS

THE CANCER BILL

Mr. Walter Elliot, the Minister of Health, received a deputation from the British Medical Association on Tuesday last, introduced by Sir Kaye Le Fleming and including Prof. R. M. F. Picken, Sir Henry Brackenbury, Mr. Bishop Harman, Dr. J. W. Bone, and Dr. Charles Hill (deputy secretary). The deputation expressed the hope that the cancer schemes would make use of the facilities of the larger voluntary and municipal general hospitals, which normally provide the specialist services in each region, and would not establish separate special clinics not closely linked with the general hospitals. They also suggested that the arrangements should include the provision of consultant facilities in the homes of patients. They trusted that the Minister would direct the attention of local authorities to the desirability of the development of schemes on a regional basis, and that the Minister would make full use of his power to require local authorities to combine in making arrangements for diagnosis and treatment. Finally they stressed the desirability of a system of uniform records of clinical findings.

In reply Mr. Elliot said he was appointing a subcommittee of the Ministry's medical advisory committee to advise him on general principles with regard to the treatment of cancer and to consider questions referred to them. He proposed to consult this subcommittee on the general exercise of his functions under the Cancer Bill, including the principles to be applied. Broadly speaking, he agreed that maximum use should be made of the facilities provided by the existing voluntary and municipal general hospitals, and that clinics should normally be closely associated with these hospitals. As for consultants, they would normally not be available except at hospitals and clinics, but it might be found desirable to make arrangements for consultants to visit the homes of patients in exceptional cases. In many regions it would clearly be desirable that a large and well-equipped hospital should serve the areas of more than one local authority. He was in full agreement about the collection of records on a uniform basis.

AN EARLY MEDICAL TEXT

THE "Liber de Diversis Medicinis," which has been reprinted and edited by Margaret Ogden, Ph.D. (London: Humphrey Milford, Oxford University Press. 1938. Pp. 160. 10*s*.), is contained in a manuscript preserved at Lincoln Cathedral and known as the Thornton MS. The medical portion of the manuscript is only about a ninth of the whole: the larger part consists of romances, sermons, religious poetry and mystical themes.

Robert Thornton, who is believed to have been the writer of this and a somewhat similar manuscript in the British Museum was, it is thought, an amateur scribe; one, that is, who was not professionally trained to the writing of MSS. But Dr. Ogden makes no suggestion as to why an amateur should have devoted his time and labour to the compilation of so heterogeneous a collection. Whatever his motive may have been the medical part of the MS. has no pretensions to originality; it is merely a collection of the most approved remedies of the period arranged more or less under the headings of the various parts of the body affected. Such collections can be paralleled from the fifth to the fifteenth century, and represent a traditional medicine which remained for the most part practically unaltered from the time of Galen to the revival of learning, and left their traces on the pharmacopœias till well into the eighteenth century. To the general reader the chief interest of Thornton's compilation lies in the occasional interruption of his interminable list of complicated recipes by short disquisitions on more human topics. One of these gives directions for the preservation of health in a visitation of the plague, and of the methods of treatment when the disease has declared itself. Other digressions relate to various charms and spells; and one gives the Latin form of the mass which is to be said for the cure or avoidance of the "falland evyll," that is, epilepsy. There is also an interesting list of the signs which betoken the approach of death: it includes nearly all those by which the Hostess in Shakespeare recognised Falstaff's approaching end.

Dr. Ogden has provided a good glossary so that it is possible for the inexpert in the language of the fifteenth century to read Thornton with little difficulty, but, we are bound to add, with small hope of profit. The main interest both for Dr. Ogden and the general reader is not medical but philological.

X-RAY EQUIPMENT

Messrs. Philips have issued a new brochure illustrating the improvements they have made in the design of their radiological units. Metalix protected tubes and gas valves, and the Rotalix rotating anode tube, are well enough known to need no further description, but the latest apparatus shows an important advance in the degree of radiographic efficiency obtained and the improved inherent "regulation" characteristic of the transformers. Part of this advance is a direct result of research on insulating material of higher dielectricstreng th. The diagnostic apparatus has been kept simple in design and is easy to use even when a number of different features are incorporated, as in the Universal combined couch and screening stand and in the control table illustrated. It is now possible by using a special rotating tube plant to carry out radiography of the thorax with an exposure time of 1/30th of a second. For therapy two standard units are shown—the Maximus T, which operates at 200 kV., 30 mA, and the Metalix contact and cavity therapy unit. The first has an output of 150 r per min. measured free in air at 40 cm., with a half-value layer of 1 mm. of copper and filtration 0·5 mm. copper, 1 mm. aluminium. In the second the cathode is earthed and situated at a distance of only 18 mm. from the aperture, with the result that the output in contact with the radio-transparent cap reaches at 50 kV. the extremely high figure of 7200 r per min. In addition to these units, Messrs. Philips have been engaged in the last five years on the construction of super-voltage therapy plant on the cascade system, using the ingenious method of establishing a common vacuum in a sectional tube by bombarding thin metal foils, which close the ends of the separate units, with the electron beam from the cathode.

PROS AND CONS OF THE TOOTHBRUSH

THE value of toothbrushing is a matter on which strong opinions are held. The damage caused by unskilled use of the brush is a commonplace amongst dental surgeons, and the calamitous state of the mouths of middle-aged patients who do not clean their teeth is well known to the physician. The whole question is thoroughly thrashed out by Mr. Isador Hirschfeld, D.D.S., in "The Toothbrush: Its Use and Abuse" (London: Henry Kimpton. 1939. Pp. 591. 35*s*.). Many readers will be surprised to note how small a part of his book deals with the relation of toothbrushing to dental caries. In fact, however, there is very little evidence on this matter, and that little is adequately summarised. The bulk of the volume deals with the effects of the brush on the soft tissues about the teeth, the damage it may cause, and the value of skilful brushing in preventing disease of the gums or treating disease already present. The author does not underestimate the background of systemic disturbance associated

with much oral disease, though he may seem to place a degree of confidence in local treatment more often found among dental surgeons who, as commonly in this country, consider local factors of causation the more important. Many of the conditions described can be treated in other and, some may think, better ways than those advocated, but the title of the book disarms criticism on this score. The short chapter describing the drastic effects of various proprietary bleaching preparations containing strong mineral acids should be noted by those responsible for the medical care of young women, since those who employ such remedies for whitening the teeth do not visit the dental surgeon.

TYPHUS FEVER AND TUBERCULOSIS

In the *Journal of the Egyptian Medical Association* (1938, **21**, 451) Dr. S. El Kholy reports that during an extensive epidemic of typhus fever all the patients except three gave a positive Weil-Felix reaction. These three showed characteristic clinical symptoms with a sudden onset, drowsiness, severe prostration and a rash. On the fourteenth day their temperatures dropped but continued to oscillate between 98·6° and 100·4° F. Clinical and radiological examination of their chests showed the presence of pulmonary tuberculosis in all three, and in two tubercle bacilli were found in the sputum. In order to throw light on the question whether the previous attack of tuberculosis was the cause of the lack of antibodies to *Bacillus proteus* X19 a guinea-pig which had been injected 35 days previously with tubercle bacilli was injected intraperitoneally with 2 c.cm. of blood from a typhus patient. It was found that the tuberculous guinea-pig developed the antibodies of the Weil-Felix reaction to a much smaller extent than a control animal, the titre being low with no tendency to rise. El Kholy concludes that the presence of tuberculosis prevents the full development of antibodies.

SPEECH DEFECT

Not many years ago the schoolboy who could not keep pace with his fellows was put down as a dunce, a suitable butt for the derision of his fellows. The overgrown boy with acidosis was thought to be lazy, the frightened boy a fool, and the stammerer a figure of fun. This view dies slowly but the educationist is tending more and more to call in the physician and the psychologist to help him remove whatever is preventing the child from reaching a reasonable standard in his school work. Among the common causes for the failure of a child to reach the approved standard is the handicap of speech defect. The child with a stammer usually tries to avoid notice, and the sympathetic school teacher, finding how painful it is for him to speak before others, seconds his attempt to hide by ignoring him. This separates him from the class, tends to produce a feeling of inferiority, and of course retards his progress. In those centres which have an expert available the stammering child can be given special classes and the cause of his backwardness can be removed, but stammerers are many and opportunities for treatment are as yet very few.

In their "Principles and Practice of Speech Correction" (London: Sir Isaac Pitman and Sons, 1938. Pp. 298. 10*s*. 6*d*.) J. F. Bender and V. M. Kleinfeld of New York draw attention to the importance of this problem and make a worthy attempt to solve it. The basic principles upon which their work is founded are as applicable in England as in the United States. Their object is to put forward an ideal method for dealing with the student who suffers from speech defect together with a scheme for training teachers and clinicians to undertake the work. In their small book they do no more than outline their scheme. They do not attempt to deal with the details of treatment and dismiss in one short chapter the important question of the relations between parent and child. Nevertheless, their suggestions are worthy of study.

There are at present two schools of thought as to the cause of stammer. Some maintain that the fault lies in the mechanism of speech and that the fear element in the condition results from the speech defect, while others think that an anxiety state originates the stammer, and that if this is removed the stammer disappears. T. C. Norris, in his book "Thought and Speech" (Same publishers, 1938. Pp. 100. 3*s*. 6*d*.), propounds a third theory and suggests an original method of cure. Norris will have nothing to do with those who treat stammer by dealing with the mechanism of speech. He admits that their method produces quick results, but holds that it fails the stammerer in an emergency, so that he is apt to lose confidence. He is not prepared to accept the psychological theory, and he looks upon relaxation, such as is advocated by Boome and Richardson in the book reviewed on p. 456, as a purely negative measure. Norris believes that the stammerer's mind works more quickly than that of ordinary people, so that thought outpaces speech, and he recommends the exercise of controlling thought at all times to the speed at which speech can travel; when speech is attempted, thought will then keep pace with it. He claims that if the mind concentrates on the sound of one word at a time, speech will be natural and easy, and its mechanism can be ignored. It is undeniable that good speaking, and especially good public speaking, demands that the mind must be sufficiently controlled to avoid interference with clear thinking by extraneous ideas. Norris was himself a stammerer and he says that he has arrived at his conclusions "after nearly sixty years of earnest thought." He has certainly made out a good case for his views.

A NEW VACCINE BOTTLE

In the past it has been found difficult to sterilise rubber-capped vaccine bottles efficiently by heat because the rubber diaphragm will not stand the pressure of an autoclave. A new type of bottle designed by Mr. H. Berry, B.Sc.[1] of the Pharmaceutical Society's research laboratory, should largely overcome this disadvantage. The bottle is made of Woods resistant glass which complies with tests for alkalinity. A skirted rubber cap fits inside and over the neck (fig. 1) and is in turn covered by a moulded bakelite screw-cap (fig. 2). Inside this is a fabric-covered rubber washer which can be soaked in antiseptic and will thus render the outer surface of the rubber cap sterile when screwed home. It is said that this type of bottle will withstand autoclave pressures up to 50 lb. It is manufactured by Messrs. Britton, Malcolm and Waymark of 36, Southwark Bridge Road, S.E.1.

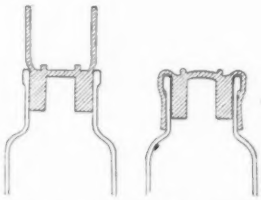


Fig. 1—Section of bottle showing how rubber cap is turned down over the neck.

Fig. 2–Bottle with inner rubber cap and outer bakelite cap.

1. *Pharm. J.* 1938, **86**, 627.

DIPHTHERIA IMMUNISATION

THE success of the immunisation campaign in Toronto (*Lancet*, Jan. 7, p. 45) must not be allowed to overshadow the even more impressive record of Hamilton, Ontario, a city with a population of 155,000, of whom about 40,000 attend schools or colleges. Hamilton is well known as one of the very earliest cities in Canada to carry out immunisation against diphtheria on a large scale. This work was begun in 1922 by Dr. J. E. Davey, now the city school medical officer, and the Hamilton *Spectator* has recently quoted the results achieved. For the last eight years there have been no deaths from diphtheria and for the last five not a single case of the disease! In 1922, when the population was 118,243, there were 747 cases of diphtheria with 32 deaths. "From then on," says the report, "the record is one of rapid and unfaltering reduction": in 1924, 501 cases and 32 deaths; in 1926, 121 cases and 3 deaths; in 1927, 11 cases and 1 death; in 1931, 5 cases and no deaths; 1 case in 1932, 3 in 1933, and since then none. This complete victory is rightly regarded as one of the proudest achievements of the board of health.

RECOGNITION OF CHIROPRACTORS IN ZÜRICH

SOME time ago a number of citizens of the canton of Zürich started an agitation for the legal recognition of chiropractors. A plebiscite was held on Jan. 22 when 72,500 voted for recognition and 56,500 against. The total number of electors on the register is 200,000. An intense campaign in the press and elsewhere had preceded this plebiscite, the chiropractors using propaganda on an American scale, and evidently being able to call upon large financial resources. Our Swiss correspondent remarks: "The result is obviously a blow to official medicine and may be taken as a vote of lack of confidence. On the other hand it is said that, as in the United States, chiropraxis is already on the wane, so that the practical value of the new legal recognition may be a temporary one."

AN AID TO EXAMINATION OF THE THYROID

DIRECT examination of the thyroid gland by inspection and palpation to determine its size, shape, and consistence is rendered easier, especially in an obese patient with a bull-neck, by a manœuvre described by G. Pizzillo (*Rif. med.*, Jan. 21, 1939, p. 83). This consists in the patient throwing his head backwards and pressing his occiput forcibly against the palms of his clasped hands. Meanwhile the examiner, facing the patient sideways and watching the front of the patient's neck, should see the thyroid lifted upwards and thrown into relief together with the bellies of the sternocleidomastoid muscles. The patient next makes forcible expirations, whereupon the blood-vessels of the thyroid become engorged and make the gland still more prominent.

TROPICAL DISEASES BULLETIN

The broken continuity of the text in a collection of abstracts tends to make a journal which is made up of them look like a dictionary, and to make it less easy to read. To overcome this disadvantage it has been decided to preface each section of abstracts in the *Tropical Diseases Bulletin* by an introductory précis in which the reader will find quickly the salient information set out in fuller detail in the abstracts which follow.

This new arrangement has been adopted in the January number of the bulletin which also contains the first of a series of articles reviewing the advances made in tropical medicine from year to year. Each of these articles will give a connected account of the abstracts on a particular subject which have appeared in the bulletin during the preceding year.

Appointments

DODD, JOHN, M.B. N.U.I., L.M., resident medical officer at St. Mary's Infirmary, Armley.

EWEN, J. H., M.R.C.P.E., D.P.M., medical superintendent at Springfield Mental Hospital, London.

ILIFF, DAISY, B.A. Lond., M.R.C.S., D.P.M., assistant resident medical officer at Erdington House, Birmingham.

KENTON, COLMAN, M.R.C.S., assistant medical officer and deputy medical superintendent at St. Luke's Mental Hospital, Middlesbrough.

MACKENZIE, E. F. W., M.B. Edin., D.P.H., director of water examination to the Metropolitan Water Board.

MANSI, R. L., M.R.C.S., D.M.R.E., assistant radiologist to the Miller General Hospital, Greenwich.

MOORE, K. A., M.B. Sydney, resident surgical officer at the Royal Manchester Children's Hospital.

PARKINSON, J. P., M.B. N.Z., assistant medical officer at Wooley Sanatorium, near Hexham.

PIMM, ALLAN, M.R.C.S., hon. visiting radiologist to the Taunton and Somerset Hospital.

ROSEHILL, SYDNEY, M.B. N.U.I., resident medical officer at St. Luke's Hospital, Huddersfield.

TILLIE, J. J., M.B. Glasg., resident medical officer at the Infants Hospital, London.

WATSON, G. N., M.B. Leeds, resident medical officer at St. James's Hospital, Leeds.

London County Council.—The following appointments are announced. A.M.O. (I) or (II) = assistant medical officer (class I) or (class II), A.D.M.O. = assistant district medical officer.

SANGSTER, A. H., M.D. Dalhousie, F.R.C.S., A.M.O. (I), St. James';

COCHRANE, H. L., M.B. Belf., F.R.C.S., A.M.O. (I), St. Alfege's;

MILLARD, P. T., M.B. Sydney, F.R.C.S.E., A.M.O. (I), St. Giles';

KELLY, WILLIAM, M.B. N.U.I., A.D.M.O., South Poplar;

BROWN, H. D., M.B. Glasg., A.D.M.O., Southwark (part);

LAWLER, NICHOLAS, M.B. N.U.I., Woolwich (north of river);

BATES, DORIS C., M.B. Sydney, M.C.O.G., A.M.O. (I), St. James'; and

SEYMOUR, S. G., M.B. N.U.I., A.M.O. (I), St. Alfege's.

St. Mary's Hospital for Women and Children, Plaistow.—The following appointments are announced:—

APPLIN, H. W., M.S. Lond., D.O.M.S., hon. ophthalmic surgeon;

McDONALD, H., M.B. Lond., resident surgical officer; and

MELLERSH, MARY D., M.B. Lond., house physician.

Births, Marriages and Deaths

BIRTHS

ALLISON.—On Feb. 19, at Alderley Edge, Cheshire, the wife of Dr. Arthur A. Allison—a son.

CASSIDY.—On Feb. 17, in New York, the wife of Dr. Michael Ardagh Cassidy—a son.

HULKE.—On Feb. 17, the wife of Sydney B. Hulke, F.R.C.S.—a daughter.

MARSHALL.—On Feb. 2, at Heliopolis, Egypt, the wife of Flight-Lieutenant A. Bingham Marshall—a daughter.

VEALE.—On Feb. 17, the wife of Dr. W. F. De C. Veale, of Worthing—a daughter.

MARRIAGES

FORBES—MOORE-BROWNE.—On Feb. 18, at Holy Trinity, St. Marylebone, John Forbes, M.R.C.S., to Aimée Rosemary Patricia Moore-Browne.

DEATHS

DANTRA.—On Feb. 18, Lieut.-Colonel Sorabshaw Hormasji Dantra, M.D. Aberd., I.M.S. (retd.) (Burma), of Broadhurst Gardens, Hampstead, N.W.6.

FRENCH.—On Feb. 19, at Surbiton, Alexander Martin French, M.R.C.S., L.S.A., Fleet Surgeon, R.N. (retd.), aged 88.

JENKINS.—On Feb. 15, at Wimpole Street, W., George John Jenkins, O.B.E., M.B. Edin., F.R.C.S., aged 65.

LEWIS.—On Feb. 20, at West Hill, Highgate, N.6, Llewellyn Lewis, O.B.E., M.D. Durh.

LINDOP.—On Feb. 16, at Kersal, Manchester, Surgeon Captain Llewellyn Lindop, M.R.C.S., R.N. (retd.).

McCARDIE.—On Feb. 14, at Warwick, William Joseph McCardie, M.B. Camb., aged 74.

McMURRICH.—On Feb. 9, in Toronto, Prof. James Playfair McMurrich, M.A., Ph.D., LL.D., emeritus professor of anatomy, University of Toronto.

RUMBOLL.—On Feb. 16, in Leeds, Sydney Rumboll, F.R.C.S.E.

SIMPSON.—On Feb. 19, in Sheffield, Graham Simpson, F.R.C.S., aged 64.

N.B.—A fee of 7s. 6d. is charged for the insertion of Notices o Births, Marriages and Deaths.

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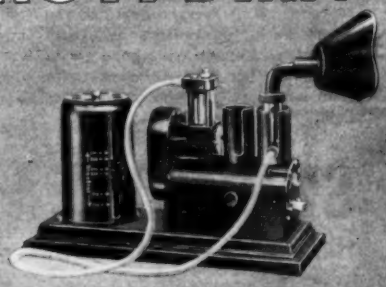

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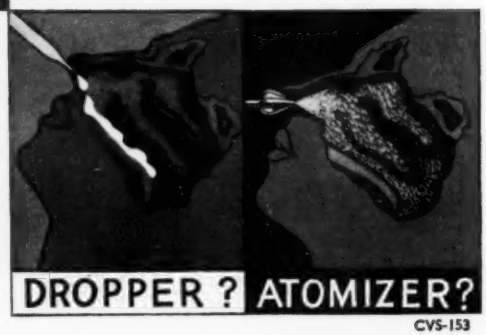

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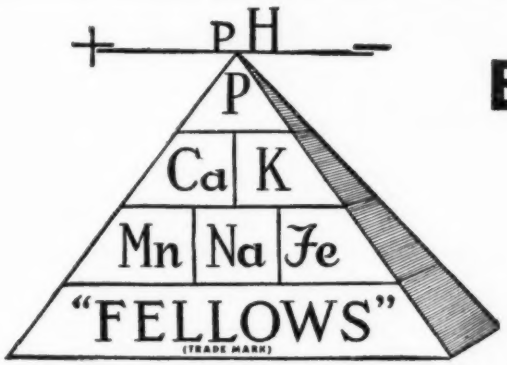

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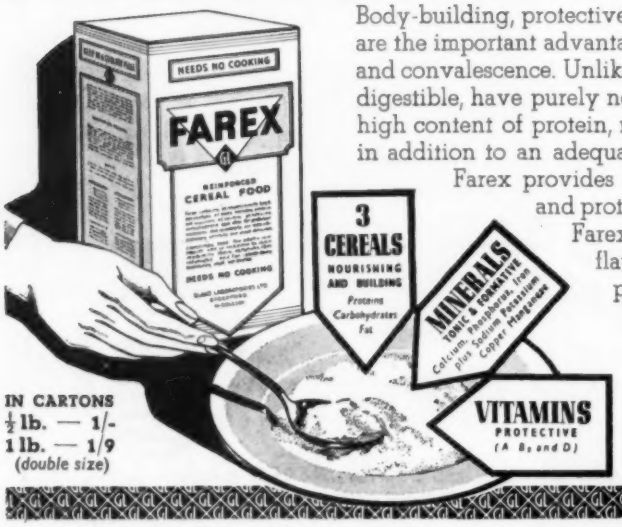

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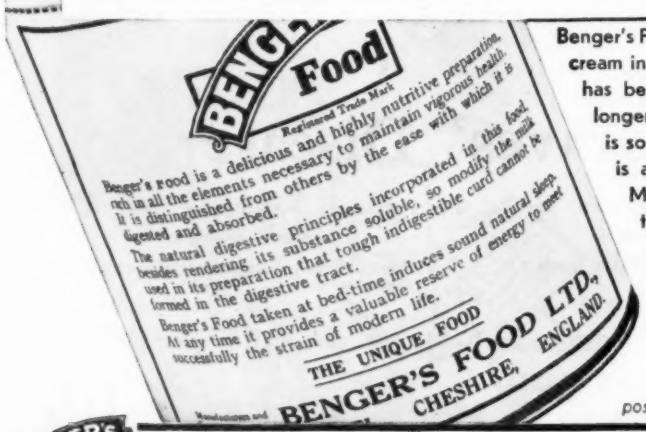

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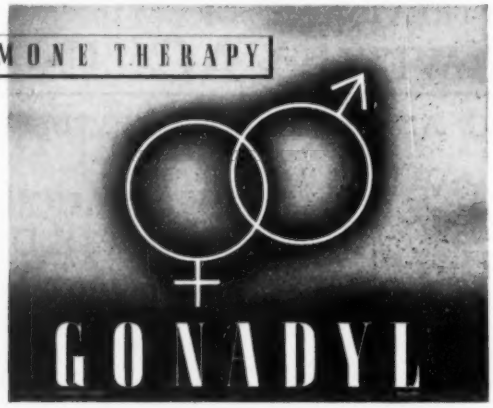

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Physiological stimulator of the secretions of Ovarian and Testicular Hormones

Ampoules for subcutaneous injections—Biological standardisation—40 Evans Units (400 Mouse Units approximately)

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SAFELY ADMINISTERED TO CHILDREN

KALMOPYRIN presents a notable advance in the production of Antipyretics and is effective in most stubborn cases.

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One or two teaspoonfuls—undiluted—usually give instant relief

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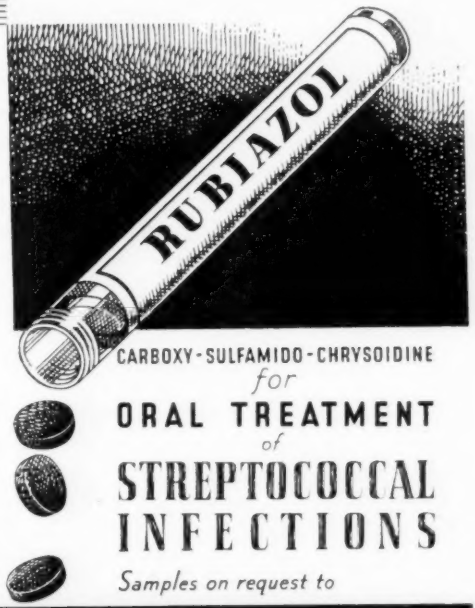

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Also 'Milk of Magnesia' Tablets, each equivalent to a teaspoonful of the liquid.

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Even though much remains to be learned concerning the importance of calcium in nutrition, these facts are definitely known: that adequate intake of the mineral is essential for the maintenance of health; that its effectiveness depends upon its availability in proper ratio to phosphorus; that Vitamin D is essential for utilisation of these two elements by the body; that the average diet is deficient in calcium; and that this deficiency may be met by a dietary supplement.

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—1·6 gr. derived from dicalcium phosphate 9 gr.

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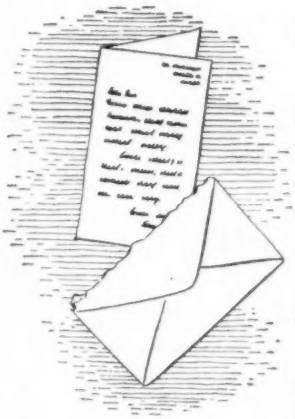
"...a decided improvement on the ordinary sanitary towel"

– A WOMAN DOCTOR WRITES OF TAMPAX



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Dear Sirs,

For some time past I have been interested in the remarks of patients who are using Tampax and, without exception, they regard it as a decided improvement on the ordinary sanitary towel.

This coincides with my own opinion and experience, as I consider that Tampax is one of the most admirable contributions to monthly hygienic needs ever placed at the service of women.

Your new method of sanitary protection has the advantage of being hygienic, thoroughly absorbent, exceptionally comfortable. It affords complete protection and perfect freedom during menstruation.

I think this logical adaptation of the medical tampon fully deserves the approval of the medical profession.

I am,

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Signed. M.R.C.S., L.R.C.P.

Tampax is a doctor's own adaptation to menstrual hygiene of the accepted principle of internal absorption used in vaginal therapy. Consisting of a highly compressed tampon of long-fibred surgical cotton-wool, Tampax is worn internally.

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Individually sealed in its own applicator, each Tampax is easily inserted without contact with the fingers. A cord sewn through the centre of the tampon by a special patented stitching process ensures complete and instant removal, and makes disintegration within the vagina impossible. Tampax confers complete comfort, freedom and peace of mind on the wearer, who is entirely unconscious of its presence.

Tampax may confidently be recommended by Physicians for use by married women during normal menstruation. Its use by unmarried girls should not be advocated when the size of the hymeneal aperture would cause difficulty in insertion and withdrawal.

We will be pleased to send doctors a full size packet of Tampax, together with full details.

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Stilboestrol—Boots is supplied in 1·1 c.c. ampoules containing 1 mg. and 5 mg. per c.c.

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Per single ampoule	1/-	Per single ampoule	1/6
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Discount to the medical profession.

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Per bottle of 25	2/6	Per bottle of 25	7/6	Per bottle of 25	22/6
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For RHEUMATISM

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There has been some confusion regarding Cadburys Special Chocolate and their Fine Dessert Chocolate. Many people have gained the impression that the latter is equally suitable for diabetics. But this is not the case. 'Fine Dessert' is a normal chocolate of the 'less sweet' type, and all chocolates of this kind contain sugar. Special Chocolate is Sugar Free and therefore a suitable addition to the dietary of diabetics.

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In Wasting Diseases

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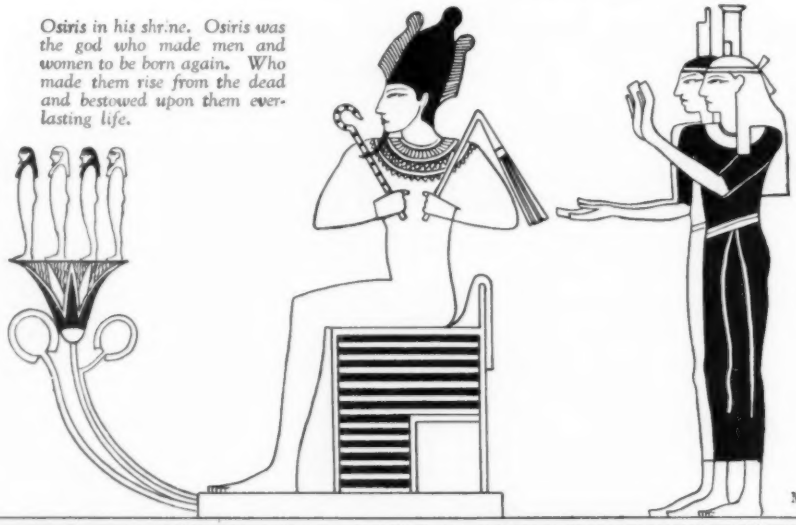
Osiris in his shrine. Osiris was the god who made men and women to be born again. Who made them rise from the dead and bestowed upon them everlasting life.



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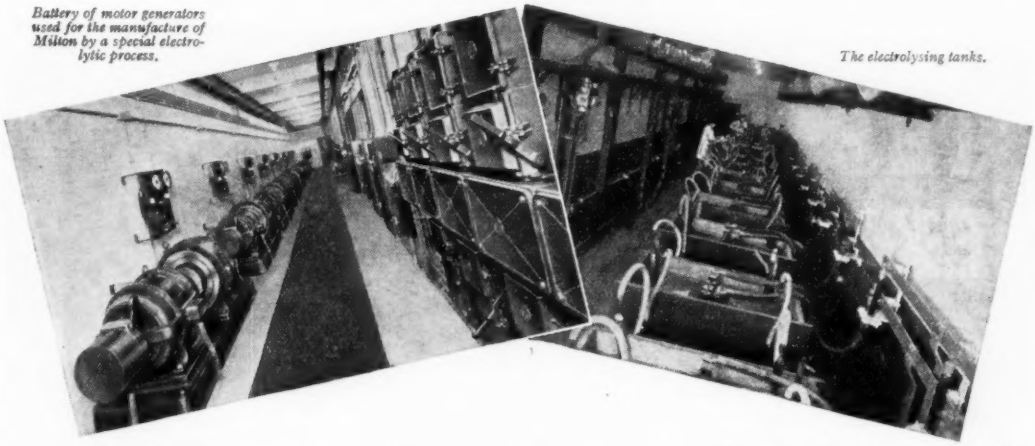

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The electrolysing tanks.

Milton in the Making!

How this famous non-caustic hypochlorite is prepared . . . .

Despite the fact that the Milton formula is published on every bottle and in every "Instructions for Use" booklet, it is often suggested that the composition of this remarkable fluid contains certain caustic elements—such as form the base of other hypochlorite preparations. This is not so.

MILTON—THE SAFE ANTISEPTIC FOR USE IN AND ON THE HUMAN BODY

INDICATIONS

GARGLING. As a prophylactic measure or as routine treatment of infection.

CATARRH. A solution not exceeding 5% is most efficacious when applied by spraying. (Milton Nasal Spray 3/- from Chemists)

DOUCHING. Milton is alkaline, deodorant, germicidal, miscible with mucus and pus; harmless to delicate internal membranes.

WOUNDS, CUTS, SCALDS. The hypochlorite characteristics of Milton are invaluable for cleansing, sterilizing and dressing.

Milton is completely non-caustic. Its manufacture may be summed up as follows:

A brine solution is prepared from special salt (NaCl), supplied to a specified and high degree of purity. This solution is decomposed by electrolysis—producing in its ultimate phase sodium hypochlorite (NaOCl) in a highly active state. An all-important stabilising process follows and the resultant liquid is *Milton*; 80 times more germicidal than carbolic 5% solution; non-toxic and non-corrosive; possessing in its most active form the unique hypochlorite property of dissolving albumens and proteins; and having twice the penetrative power of Dakin's Fluid.

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Such is Milton, the safe antiseptic for use in and on the human body.

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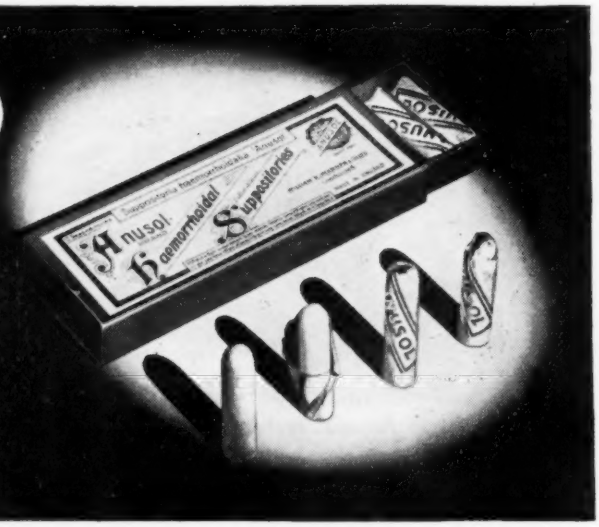
Members of the Medical Profession are invited to write to Research Dept., Milton Proprietary Ltd., John Milton House, London, N.7, for free professional sample bottle of Milton and informative literature and copies of independent laboratory reports . . . or to arrange a visit to John Milton House.

THE NEED EXISTS - AND IS FULFILLED



Injection for hæmorrhoids is a well-established treatment. There may exist, however, certain local conditions which proctologists regard as contraindications and which must be alleviated before injections are made. Among such conditions are inflammation, fistula, fissure and ulceration, all of which may be effectively relieved with Anusol Brand Hæmorrhoidal Suppositories.

Anusol Suppositories relieve pain, allay inflammation and reduce congestion. They aid in the control of hæmorrhage, soothe and protect the affected part. The fæces are softened, constipation is relieved and evacuation is rendered easy and less painful. In short, Anusol Suppositories provide for the patient a period of relative comfort.

No systemic effects are produced; there is no masking of symptoms; the improvement that results is genuine. Anusol Suppositories are safe under any condition.

Supplied in boxes of 12 Suppositories, also in boxes of 50 for dispensing.

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Available also in Ointment form.

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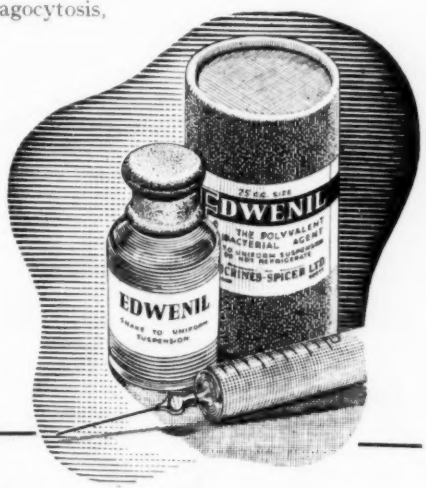
Edwenil is virtually protein-free, and its powerful antigenic effect is entirely without untoward local or systemic "reactions." A clinical sample gladly sent to any Physician.



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Rubber-capped phials of 12½ c.c.	11/-
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The adrenal cortex exerts an important antitoxic action and plays an integral part in resistance to bacterial infections. The oral administration of cortical extracts is now recognised as the best means of stimulating suprarenal activity, and thus favourably influencing recuperation from infections.

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ADRENO-CORTIN

Bottles of 30 capsules 7/6. Subject to Professional discount.

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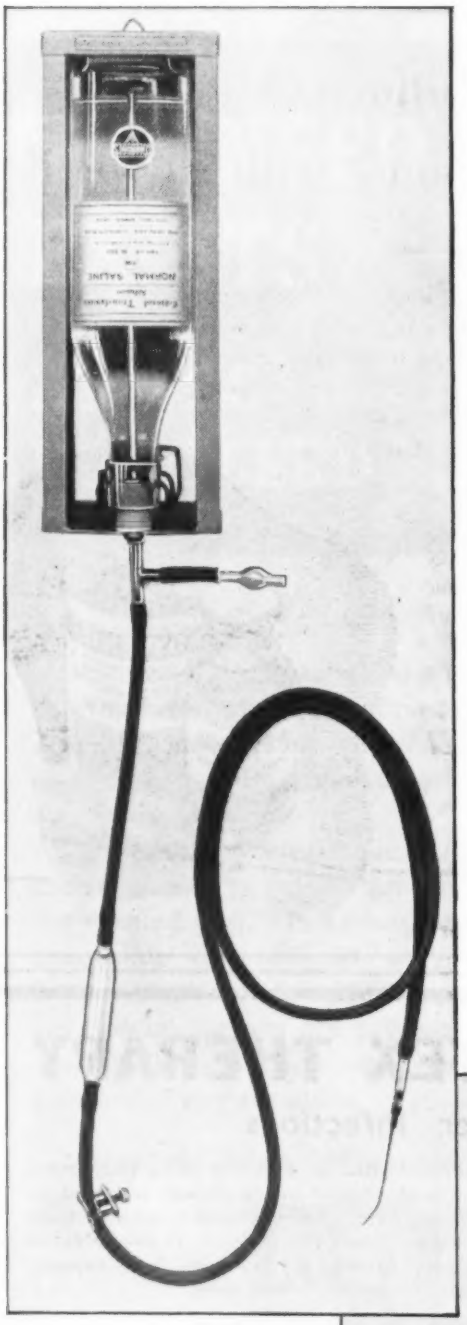

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The 20-oz. and 40-oz. porcelain stoppered bottles (illustrated) are prepared specially for hospital use.

A wide range is now offered. The solutions are the finest available, and will keep indefinitely. The apparatus is designed for ease and speed in handling. The cost is extremely low and bulk quotations will gladly be sent.

Full information is contained in the new edition of "Contemporary Transfusion Practice" now available, which will be sent upon request.

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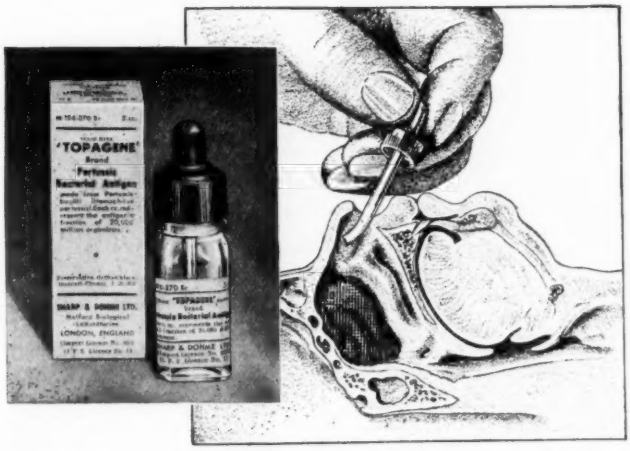
Treatment of Pertussis by the Intranasal Instillation of 'TOPAGENE' Mulford



'TOPAGENE' Pertussis Bacterial Antigen is indicated in the specific treatment of pertussis by intranasal instillation. It is a sterile solution of soluble antigenic substances derived from recently isolated phase I cultures of H. pertussis. Each c.c. represents the antigenic substances derived from 20,000 million organisms. Its use clinically has resulted in definite cessation or amelioration of the paroxysmal cough and a decrease in the duration of the disease.

Slesinger, in Journal of Pediatrics, 9 : 42, 1936, states that : " We feel that the high percentage of favourable results and the simplicity of the method of treatment definitely class this intranasal antigen as a valuable therapeutic procedure in the treatment of active cases of whooping cough."

The experience of Gold, reported in Journal of Pediatrics, 10 : 641, 1937, shows definite benefit in 85% of the cases treated early in the paroxysmal stage of the disease.

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COW & GATE LTD. have just published their 5th edition of "MOTHERHOOD".

A copy of this comprehensive guide to mothers will be gladly sent free of charge to members of the medical profession.

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The loss of appetite which so often accompanies malignant disease of the alimentary tract does much to accentuate the depression and so add to the difficulty of nursing.

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'BiSoDoL' contains Papain and Diastase, the digestive powers of which aid weakened assimilation.

Samples of Pulv. Bisodol or Bisodol Tablets on request.

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The Original *and* Standard Emulsion *of* Petroleum

'Angiers' Emulsion
is made with petroleum specially purified for internal use. It is the original petroleum emulsion — the result of many years of careful research and experiment.

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The unique soothing properties of 'Angiers' and its favourable influence upon assimilation and nutrition make it eminently useful both during and after influenza. It has proved most efficacious in relieving the catarrhal symptoms, whether tonsillar, bronchial or intestinal; also in combating the nervous depression and debility. After the attack, or when the patient's nutrition and vitality are at the lowest ebb, try the continued use of 'Angiers' for convincing proof of its effects as a tonic and restorative.

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There is a vast amount of evidence of the most positive character proving the efficacy of 'Angiers' in sub-acute and chronic bronchitis. It not only relieves the cough, facilitates expectoration, and allays inflammation, but it likewise improves nutrition and effectually overcomes the constitutional debility so frequently associated with these cases.

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of a catarrhal, fermentative, ulcerative or tubercular nature, 'Angiers' is particularly useful. It exercises sedative, demulcent, lubricant effects throughout the entire intestinal canal, and it restores tone to all the digestive functions. Moreover, it offers the very best vehicle for the administration of astringents and antiseptics (bismuth, salol, &c.). The emulsion may be administered undiluted or in any desired vehicle.

Free Samples to the Medical Profession

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ANGIERS BRAND EMULSION

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Genatosan Limited

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An entirely new preparation of calcium aspirin has been developed in the Genatosan Research Laboratories and is being

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It is

REGD. TRADE MARK.

'Calsprate'

BRAND

CALCIUM ASPIRIN

This improved brand of Calcium Aspirin is practically tasteless, completely soluble in water and free from the side actions usually associated with aspirin. May be prescribed in either powder or tablet form.

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12 *Tubes in carton :*	12 x 20 *tablets*			6/6
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½oz. *bottle of powder*	-	-	-	1/2
1oz. ,, ,, ,,	-	-	-	2/-
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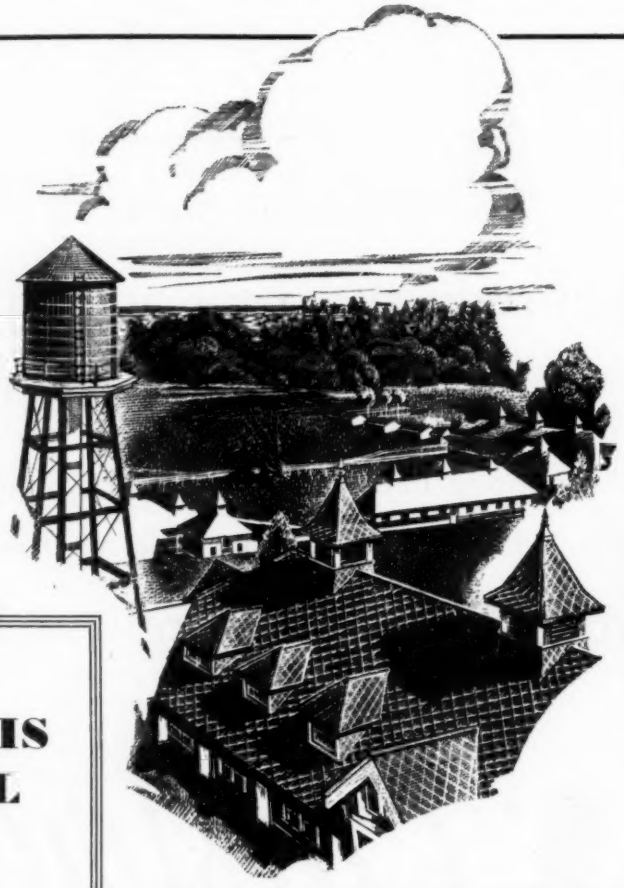
A 'Genatosan' product

If you wish for further information or clinical samples write to :

GENATOSAN LIMITED, LOUGHBOROUGH, LEICS.

Proprietors of the Registered Trade Mark 'CALSPRATE'.



Biological investigation was commenced by Parke, Davis & Co. forty years ago. In 1898 the firm produced the first 2000-unit per c.c. diphtheria antitoxin ever obtained. Biological work developed so extensively that, in 1908, a biological farm was established for the production of serums, antitoxins, etc.

THE PARKE-DAVIS BIOLOGICAL FARM

This experimental and biological farm, maintained by Parke, Davis & Co., near Rochester, Michigan, about 30 miles north of Detroit, covers one square mile, and is devoted mainly to the production of serums, antitoxins, and other biological products. More than 40 buildings, arranged in units, house several hundred horses and a large herd of cattle. Several thousand small animals, such as goats, pigeons, rabbits and guinea-pigs, are included among the livestock of this large farm. The large area has made it possible to place the quarantine building fully a mile from the other buildings which are constructed and arranged with special regard to the purposes for which they are used. Each type of work is segregated in a separate unit housed by itself and utilizing its own equipment. Most of the stables have a capacity of 50 horses each, and all are well lighted and ventilated. Special operating rooms are used for injecting and bleeding the horses used for serum production. Other auxiliary buildings which have been designed for individual purposes include the central heating and power plant, the post-mortem room and the dipping building where disinfecting baths are given to all horses and cattle.

PARKE, DAVIS & CO., 50, BEAK STREET, LONDON, W.1.

Laboratories : Hounslow, Middlesex. *Inc. U.S.A., Liability Ltd.*

Effective management of

MEASLES

THE DANGER OF SEVERE or fatal complications—chiefly bronchopneumonia—of measles, justifies the application, wherever measles appears, of measures that have been recognized to be of value in controlling the severity of the disease.

"Immune Globulin (Human) *Lederle*" possesses several advantages over other materials applicable to the control of measles:

—it is readily available, stocked for epidemic emergencies;
—its activity is uniform; the protective power in pooled extracts, each prepared from about 1000 placentas, is fairly constant;
—a relatively small dose is required.

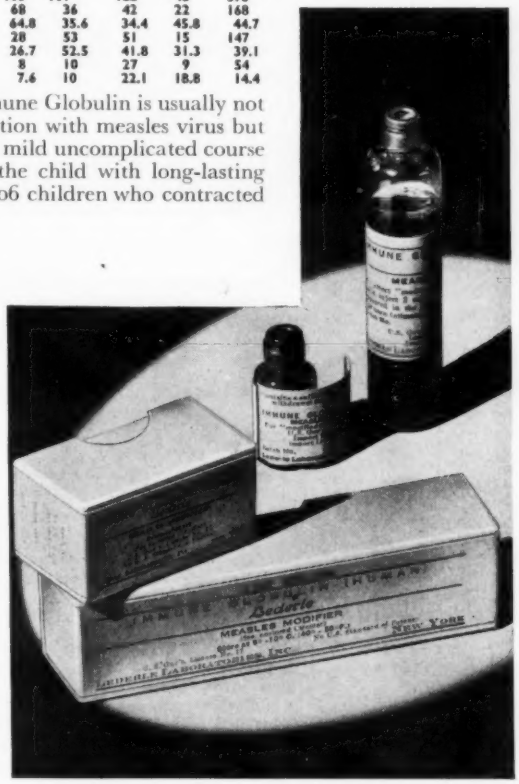
A recent study* gave the following results (infants under six months being excluded from this table, since they have some natural immunity):

	6 mo.-1 yr.	1 yr.-2 yrs.	2 yrs.-5 yrs.	5 yrs.-10 yrs.	Total
Number given "Immune Globulin"	105	101	122	48	376
Did not get measles	68	36	42	22	168
Per cent.	64.8	35.6	34.4	45.8	44.7
Developed milder measles	28	53	51	15	147
Per cent.	26.7	52.5	41.8	31.3	39.1
Developed unmodified measles	8	10	27	9	54
Per cent.	7.6	10	22.1	18.8	14.4

The purpose of giving Immune Globulin is usually not to prevent altogether the infection with measles virus but to keep the disease limited to a mild uncomplicated course that will, nevertheless, leave the child with long-lasting subsequent immunity. In the 206 children who contracted measles, 147 were mild cases —71.4%!

"Immune Globulin (Human) *Lederle*" is available in 2 cc. and 10 cc. vials.

*CHICAGO BOARD OF HEALTH



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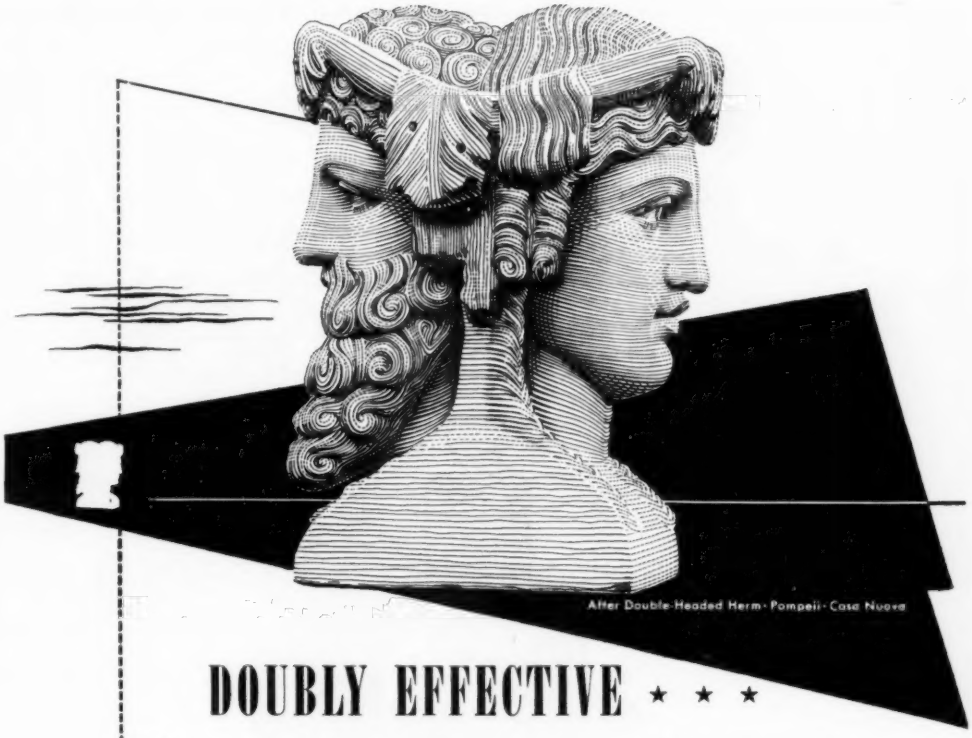

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★ LANCET, DECEMBER 10th, 1938, p. 1381.

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P 4

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Experimental and clinical investigations by Jores and Goyert (1936).—Fortschr. Ther. 12, 159.

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Before Bellergal Treatment			After Bellergal Treatment		
Oculocardiac Reflex	Dermo-graphism	Respiratory Arrhythmia	Oculocardiac Reflex	Dermo-graphism	Respiratory Arrhythmia
— 6	r 15	— 2	—17	r 19	—19
+13	w 4	+17	+ 3	w 1	+ 1
++ 1	r+w 1	++ 1	++ 0	r+w 0	++ 0

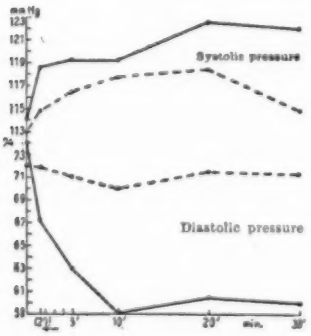
Under oculocardiac reflex, + + signifies not only slowing but also weakening of the pulse. Under dermographism, r = red, w = white, r + w = white dermographism with red margin.

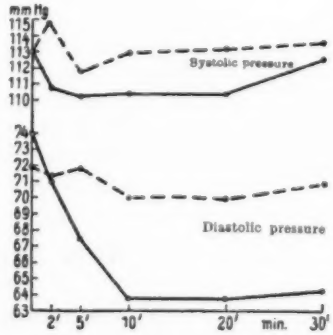
"It is seen that the oculocardiac reflex was negative in only 6 cases before treatment with Bellergal but in 17 cases after treatment; white dermographism was observed in 4 cases before but only in one case after treatment; respiratory arrhythmia, present in 18 cases, disappeared except in one case."

RESPONSE OF THE BLOOD PRESSURE TO AUTONOMIC STIMULANTS BEFORE AND AFTER BELLERGAL TREATMENT

Action of Adrenaline — Action of Pilocarpine

—— Before Bellergal treatment
- - - - After Bellergal treatment





In subjects with a labile autonomic nervous system, Bellergal diminishes the exaggerated reactions, especially of the diastolic pressure, to stimulants of the autonomic nervous system such as adrenaline and pilocarpine. It also inhibits the action of adrenaline and pilocarpine on the pulse, temperature, oculocardiac reflex, dermographism and respiratory arrhythmia.

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[*See also pp.* 24 & 51.]

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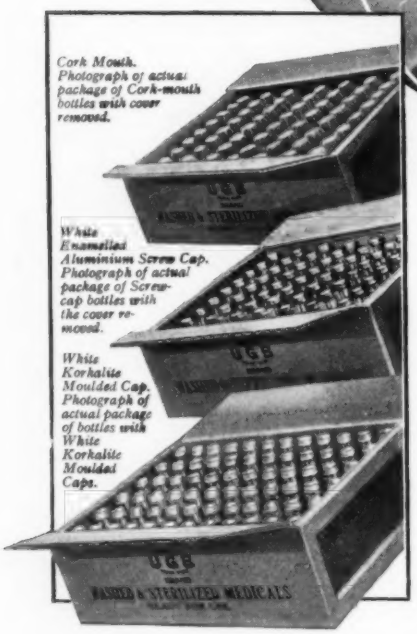

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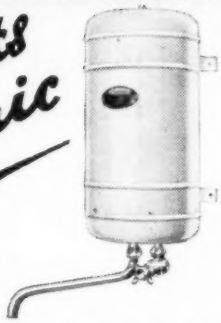

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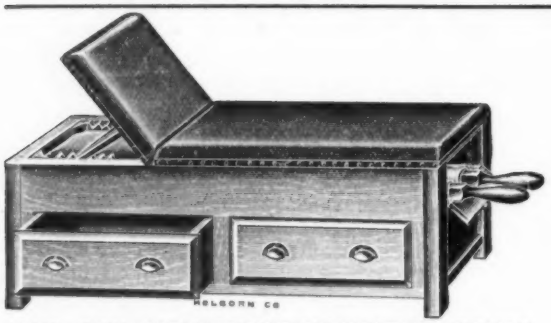

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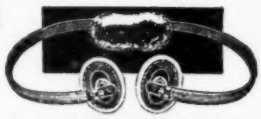

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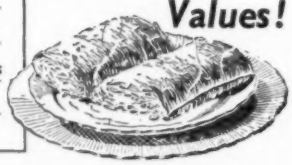

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The Convalescent Branch is Hove Villa, Brighton, and is 200 feet above sea level.

FAIRFORD RETREAT, Gloucestershire

(Within two hours of London.) **ESTABLISHED 1822.**

Home life for Ladies and Gentlemen MENTALLY AFFLICTED. Voluntary Patients received without Certificates. The Retreat is pleasantly situated in extensive grounds on the banks of the River Colne, a part of which celebrated trout stream flows through the Estate. There is every facility for sport and Occupational Therapy. The neighbourhood abounds in pleasant walks, and Fairford, being in the Cotswolds on a dry oolitic soil, is remarkably healthy. Own farm and dairy produce.

For terms, which are very moderate, apply to the proprietor, Dr. A. C. King-Turner, The Retreat, Fairford, Glos. Telephone 9.

THE COTSWOLD SANATORIUM

First opened in 1898 and rebuilt in 1925 on the Cotswold Hills seven miles from Cheltenham, for the treatment of Pulmonary and all other forms of Tuberculosis. Aspect S.S.W., sheltered from North and East, elevation 800 feet. Pure bracing air, SPECIAL TREATMENT by artificial PNEUMOTHORAX (X-ray controlled). TUBERCULINS, and ULTRA-VIOLET RAYS is available when necessary without extra charge. X-RAY plant, Fully Equipped Dental Department, Electric Light Radiators, hot and cold basins and Wireless in all rooms. Up-to-date drainage. Full day & night Nursing Staff. **Terms 5 to 7½ Guineas a week inclusive.**

Med. Supt.: GEOFFREY A. HOFFMAN, B.A., M.B., T.C. Dub. *Asst. Phys.:* MARGARET A. HARRISON, M.B., B.S. Lond. *Cons. Laryngologist:* G. N. BARKER, F.R.C.S. Edin., D.L.O. *Cons. Dent. Surgeon:* GEORGE V. SAUNDERS, L.D.S.R.C.S. Lond. *Phone:* 81 & 82 Witcombe. Apply: *The Secretary, The Cotswold Sanatorium, Cranham, Gloucester. Telegrams:* "Hoffman, Birdlip."

PRIOR PLACE SANATORIUM

HEATHERSIDE, CAMBERLEY, SURREY.

FOR THE TREATMENT OF PULMONARY TUBERCULOSIS

Well situated on high ground and surrounded by pines and heather.
All rooms are fitted with electric light, wash basins with hot and cold water, and radiators.
X ray plant. Day and night nursing staff.

RESIDENT MEDICAL SUPERINTENDENT: Dr. H. O. BLANFORD, to whom application for admission can be made.

THE RESIDENTIAL TREATMENT OF ALCOHOLISM & DRUG ADDICTION

RENDLESHAM HALL

(Postal Address), WOODBRIDGE, SUFFOLK

RENDLESHAM HALL, which is open to receive patients, is essentially a Sanatorium. Its daily life and routine are that of an ordinary comfortable holiday or health resort, or of a large country house. Each patient has all the privileges of a guest consistent with the prescribed medical treatment.

RENDLESHAM HALL

Rendlesham Hall has 45 Bedrooms, and about 450 acres of Gardens and Park. It has also a private Nine-hole Golf Course, Tennis and Croquet Lawns, and Bowling Green.

Illustrated Booklet, giving particulars as to terms, etc., can be had on application to

THE RESIDENT MEDICAL SUPERINTENDENT

Telegrams and Telephone: WICKHAM MARKET 216. (Toll Call from London.)

Proprietors: **THE NORWOOD SANATORIUM, LIMITED.**

The MUNDESLEY SANATORIUM

The central building makes the Mundesley Sanatorium the best equipped building in England for the cure of Tuberculosis. All the bedrooms have hot and cold running water, electric light, and wireless head-phones. The public rooms are spacious and comfortable.

Resident Physicians:
S. VERE PEARSON,
M.D. (Cantab.), M.R.C.P. (Lond.).
E. C. WYNNE-EDWARDS,
M.B. (Cantab.), F.R.C.S. (Edin.).
GEORGE H. DAY,
M.D. (Cantab.).

For all information apply:
THE SECRETARY,
THE SANATORIUM,
MUNDESLEY, NORFOLK.
Telephone: Mundesley 94 and 95 (2 lines)

The buildings face S.S.W. and are sheltered from the sea by a pine-clad ridge. The sunshine record and dry air complete a perfect site. The medical equipment is of the latest kind, and there is a day and night nursing staff.

TERMS FROM 7½ GUINEAS WEEKLY

RUTHIN CASTLE, NORTH WALES

A Private Hospital or Clinic for the diagnosis and treatment of Internal Diseases (except Mental or Infectious Diseases).

The weekly fees are from 15 guineas according to the room occupied; rooms with bathroom are from 21 guineas. The charges include all chemical, bacteriological, X-ray or other examinations advised by the doctors, and all the usual forms of treatment, in addition to board and lodging. There are no extra charges except for alcohol (when ordered) and laundry.

An examination and consultation fee of 15 guineas is charged on the first visit.

The climate is mild. The annual rainfall is 30·5 inches, that is, less than the average for England. There is central heating throughout.

Address—THE SECRETARY, Ruthin Castle, North Wales.

Telegrams: Castle, Ruthin. *Telephone:* Ruthin 66.

CRICHTON ROYAL, DUMFRIES

For NERVOUS AND MENTAL DISORDERS

This hospital has every facility for complete investigation of the above conditions, and provides all forms of modern treatment, including psychotherapy, physiotherapy, occupational and recreational therapy. Cases of alcoholism and drug addiction are admitted. The Physiotherapy Department has separate units fully equipped for X-ray work, heliotherapy, short-wave therapy, electro-therapy, and hydrotherapy (swimming bath, prolonged baths, Scotch and Vichy douches, Plombières treatment, electric and Turkish bath cabinets, etc.). There is a fully equipped gymnasium under qualified instructors. Facilities are provided under special recreational therapists for all indoor and outdoor games, including golf course, cricket, football and hockey grounds, lawn tennis and squash courts, croquet and bowling greens. The Hospital has its own Church, Library, Cinema and Hairdressing Saloon. Terms include regular motor drives. Private rooms, suites, or villas are available, and special nurses can be provided. The hospital grounds extending to nearly 1000 acres are situated in delightful country and include an extensive farm (T.T. herd), gardens and orchards. As the hospital is well endowed terms are exceptionally moderate, e.g., First Department 3 to 30 guineas per week, Second Department 2 and 2½ guineas per week. Voluntary and certified patients are received. Medical Certificates given anywhere in the British Isles are valid for admission of patients.

For prospectus, necessary forms, and further information apply to:—

Physician Superintendent, **P. K. McCowan, J.P., M.D., F.R.C.P., D.P.M., Barrister-at-Law.** *Tel.* Dumfries 1119.

THE MAUDSLEY HOSPITAL, DENMARK HILL, S.E.5.

Telephone: RODney 3841

A CLINIC instituted by the London County Council for treatment of Nervous and Curable Mental Disorder. Voluntary patients *only* received.

New Out-patients.—Men: Mondays and Thursdays, 2 P.M. Women: Tuesdays and Fridays, 2 P.M. Children: Mondays and Fridays, 10 A.M. In-patients (*a*) 235 beds (both sexes) in wards or separate rooms, including 35 beds in a ward of King's College Hospital which is in use as a temporary annexe of the Maudsley Hospital; (*b*) a special ward (including some private rooms) for those patients of each sex who are paying the full cost and are otherwise suitable. TERMS—£5 a week, but in the case of patients with a legal settlement in the County of London a less sum may be charged according to means.

Terms include (with rare exceptions) all forms of treatment, for which there are exceptional facilities as there is a Staff of Consultant Specialists, and the Central Laboratory of London County Mental Hospitals is attached to the Hospital. Inquiries of EDWARD MAPOTHER, M.D., F.R.C.P., F.R.C.S., Medical Superintendent.

THE ROYAL EARLSWOOD INSTITUTION

FOR MENTAL DEFECTIVES, REDHILL, SURREY.

(Formerly the EARLSWOOD ASYLUM.) PATRON: H.M. THE KING.

FOR THOSE REQUIRING CONTROL with EXPERT SUPERVISION and needing SPECIAL TRAINING in useful occupations, *SCHOOLS, FARMING, and various TRADE WORKSHOPS.*

Inclusive fees from £110 p.a. *THOSE UNABLE TO PAY FULL FEES* admitted by votes of subscribers with part payment towards cost.

RECREATIONS: Outdoor games. MALE STAFF BAND for Concerts, Dancing, etc.

Apply: THE MEDICAL SUPERINTENDENT, Earlswood, Redhill, Surrey, *'Phone:* REDHILL 344; or to the Secretary, Mr. H. STEPHENS, 14-16, Ludgate Hill, E.C.4, *'Phone:* CITY 4697.

PECKHAM HOUSE, 112, Peckham Road, London, S.E.15

Telegrams: "Alleviated, London." **Telephones: Rodney 2641 and 2642.**

The above House is for the care and treatment of persons suffering from mental diseases and nervous disorders. Certified voluntary and temporary patients are received. Separate houses for treatment and accommodation of special cases adjoin the Institution. Occupational therapy, physical drill, and other forms of modern treatment. There is a seaside branch, Kearsney Court, near Dover, to which patients may be sent for treatment or on holiday. Motor drives are arranged when required. Tennis courts. Entertainments, dances, and indoor amusements held throughout the year. Terms from £3 3s. per week. Illustrated prospectus and further particulars can be obtained from the MEDICAL SUPERINTENDENT.

THE OLD MANOR SALISBURY

A Private Hospital for the Care and Treatment of those of both sexes suffering from MENTAL DISORDERS.

Extensive grounds. Detached Villas. Chapel. Garden and Dairy Produce from own farm. Terms very moderate

CONVALESCENT HOME AT BOURNEMOUTH Detached Villas standing in 12 acres of ornamental grounds, with tennis courts, etc., which Voluntary, Temporary or Certified Patients may visit by arrangement for long or short period.

Illustrated Brochure on application to the Medical Superintendent. The Old Manor, Salisbury. Telephone: Salisbury 3216 and 3217.

NORTHUMBERLAND HOUSE

GREEN LANES.

FINSBURY PARK, N.4

A PRIVATE HOSPITAL for the treatment of mental and nervous illnesses. Conveniently situated and easy of access from all parts. Six acres of ground facing Finsbury Park. Voluntary and Temporary Patients received without certification. Occupational Therapy, Psychotherapy, and other modern forms of treatment.

Telephone: Stamford Hill 2688. *Telegrams:* "SUBSIDIARY, LONDON."

Convalescent Home, KEARSNEY COURT, DOVER.

For further particulars apply to the MEDICAL SUPERINTENDENT.

VALE OF CLWYD SANATORIUM

This Sanatorium is established for the treatment of Tuberculosis of the Lungs and the Pleural Cavities. It is situated in the midst of a large area of park-land at a height of 450 feet above sea level, on the South West slopes of mountains rising to over 1800 feet, which protect it from north and east winds and provide many miles of graduated walks with magnificent views. Average rainfall 29·57 per annum. Full day and night Nursing Staffs. X-Ray plant. Every facility for Artificial Pneumothorax and for operations on the chest. Electric Lighting. Central Heating. Home Farm. Grade A Milk from T.T. Herd.

For particulars apply to Medical Superintendent.

H. MORRESTON DAVIES, M.D., M.Ch. (Cantab.), F.R.C.S., Llanbedr Hall, Ruthin, N. Wales.

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FOR THE TREATMENT OF EIGHT LADIES, VOLUNTARY, TEMPORARY AND CERTIFIED PATIENTS

CLIFFDEN, TEIGNMOUTH

FOR EARLY AND CONVALESCENT CASES — Recreational Therapies are held daily by skilled Leaders

The house stands high with spacious balconies and extensive views of the South Devon Coast. Beautiful garden. Own Dairy in 25 acres. Private road to beach.
There is also a charming house, **EBWORTHY, MANATON, DARTMOOR,** situated in 20 acres, 1100 ft. up for bracing moorland air.

Resident Physicians—BERTHA M. MULES, M.D., B.S. ANNE S. MULES, M.R.C.S., L.R.C.P.

Telephones—STARCROSS 59 and TEIGNMOUTH 289

CHEADLE ROYAL HOSPITAL, Cheadle, Cheshire.

This REGISTERED HOSPITAL, with a SEASIDE BRANCH at Colwyn Bay, N. Wales is for the treatment and care of those of the Upper and Middle Classes suffering from MENTAL AND NERVOUS DISEASES.

The Hospital is governed by a COMMITTEE, appointed by the TRUSTEES of the Manchester Royal Infirmary.

In addition to the Main Buildings there are separate villas. Extensive grounds. Hard and grass tennis courts, cricket and croquet grounds, and a court for badminton. There are also wireless installations. Golf may be had within easy distance. Occupational Therapy.

VOLUNTARY, TEMPORARY, AND CERTIFIED PATIENTS received.

The Hospital is nine miles from Manchester, 50 minutes by rail from Liverpool, and 3½ hours from London.

For terms and further particulars apply to the Medical Superintendent, who may be seen in Manchester BY APPOINTMENT. *Telephone: Gatley* 2231 (3 lines).

HAYDOCK LODGE,

NEWTON-LE-WILLOWS, LANCASHIRE.

For the reception and treatment of PRIVATE PATIENTS of both sexes of the UPPER AND MIDDLE CLASSES suffering from Mental and Nervous Diseases, either voluntarily, temporarily, or under certificate. Patients are classified in separate buildings according to their mental condition. Situated in park and grounds of 400 acres. Self-supported by its own farm and gardens in which patients are encouraged to occupy themselves. Every facility for indoor and outdoor recreation. For terms, prospectus, etc., apply MEDICAL SUPERINTENDENT. *'Phone:* Ashton-in-Makerfield 7311. *Tele. Address:* Street, Ashton-in-Makerfield.

CLARENCE LODGE

CLAPHAM PARK, LONDON

Situated in 3½ acres of secluded gardens.

HOME FOR TWELVE MENTAL PATIENTS (LADIES).

Well-appointed private house. Home comforts and Trained Nursing Staff. Eminent Mental Specialist. Visiting Physician.

Station: Clapham Common Tube.

Phone: Tulse Hill 4913

Apply MISS THWAITES.

MALLING PLACE, KENT

For LADIES and GENTLEMEN of Unsound Mind.

Terms moderate. Apply to Resident Medical Superintendent. Telegrams: ADAM WEST MALLING. Telephone No. 2: MALLING.

PORTSMOUTH CITY MENTAL HOSPITAL

Accommodation is provided for the reception of PRIVATE PATIENTS of both sexes in three detached Villas, which are healthily and pleasantly situated in extensive grounds with sea views.

Charges from 3 guineas weekly, including all necessaries except clothing.—Apply to the Medical Superintendent and Resident Physician, THOMAS BEATON, O.B.E., M.D., F.R.C.P.

FENSTANTON

Christchurch Road, Streatham Hill, S.W.2

A Private Home for the Treatment of LADIES with Mental and Nervous Disorders. Psycho-Therapy, Physio-Therapy, &c. 12 acres of grounds

Apply: **Dr. MADELINE R. LOCKWOOD,**
phone: TULSE HILL 7181 *Resident Physician Superintendent.*

THE WARNEFORD, OXFORD.

HOSPITAL FOR MENTAL DISORDERS.

President: The Right Hon. the LORD SAYE AND SELE.

This Registered Hospital for the Treatment and Care, at moderate charges, of Mental Patients belonging to the educated classes, stands in a healthy and pleasant situation on Headington Hill, near Oxford. Voluntary and Temporary Patients are also received for treatment. The adjacent estate of HIGHFIELD PARK has recently been acquired and the house, which has been modernised and equipped with every comfort, is now available for mild and convalescent patients. Private suites can be arranged.

For further particulars apply to the Physician-Superintendent.

Telegraphic Address: "Relief, Old Catton." Telephone: 290 Norwich.

NERVOUS & MENTAL AFFECTIONS

Ladies only received

The Grove, Old Catton, Norwich.

A High-class Home for the Curative Treatment of Nervous Affections. Voluntary Boarders are also received without certificates.

For full particulars apply to the Misses MCLINTOCK or to Dr. S. BARTON, 34, Surrey-street, Norwich, Visiting Physician.

RUSSELLS

Hemel Hempstead Road,

WATFORD

Telephone: WATFORD 5917

A convalescent home for the care and treatment of mild and recoverable nervous conditions in both sexes. The house is situated high up in 40 acres of grounds, 17 miles from London, at the termination of the Watford by-pass. One medical officer is in residence, and two others are in daily attendance. Fees from ten guineas a week, inclusive.

Apply: RESIDENT MEDICAL OFFICER.

Littleton Hall, Brentwood, Essex.

(18 miles from London.) 400 feet above sea.

A PRIVATE HOME for LADIES situated in large grounds. Voluntary, temporary, or certified cases received. Apply to Dr. HAYNES. Tel.: Brentwood 45.

Grove House, All Stretton, Church STRETTON, SHROPSHIRE.

A PRIVATE HOME for the care and treatment of a limited number of Ladies Mentally Afflicted.
Climate healthy and bracing.
Apply to Dr. McCLINTOCK, Proprietor and Resident Medical Superintendent.

CHISWICK HOUSE,

PINNER, MIDDLESEX.
Telephone: PINNER 234.

A Private Hospital for the Treatment and Care of Mental and Nervous Illnesses in both Sexes.

A modern country house, 12 miles from Marble Arch, in attractive and secluded surroundings. Fees from 10 guineas per week inclusive. Cases under Certificate, Voluntary and Temporary Patients received for treatment.

DOUGLAS MACAULAY, M.D., D.P.M.

HILL END HOSPITAL AND CLINIC

FOR THE PREVENTION AND TREATMENT OF MENTAL AND NERVOUS DISORDERS

(20 miles from London)

Ladies suffering from all forms of MENTAL ILLNESS are received for treatment, on modern lines, as Voluntary, Temporary or Certified Private Patients at the Hill End Hospital. Convalescent or mild cases can be treated in a delightful country mansion, with extensive grounds, known as

HIGHFIELD HALL,

situate about a mile away from the Hospital.

FEES TWO TO FOUR GUINEAS PER WEEK.

For further particulars apply to the Medical Director, W. J. T. KIMBER, L.R.C.P., D.P.M.

ST. ALBANS, HERTS

RHEUMA SPA, KINMEL HALL,

ABERGELE, NORTH WALES

Modern Spa Treatments, including Continental Pistany Mud and Scotch Douche, for Rheumatic and similar disabilities. Resident Physician. Excellent amenities and Recreational facilities.

IDEAL WINTER QUARTERS—REDUCED RATES

SPRINGFIELD HOUSE

'Phone: BEDFORD 3417. **Near BEDFORD**

For Mental Cases with or without Certificates.

Ordinary Terms: Five Guineas per week (including Separate Bedrooms for all suitable cases without extra charge).

For forms of admission &c., apply to the Resident Physician, CEDRIC W. BOWER.

INTERVIEWS IN LONDON BY APPOINTMENT.

HEIGHAM HALL, NORWICH

A PRIVATE MENTAL HOME situated in 14 acres of well-wooded grounds. For Ladies and Gentlemen suffering from Nervous or Mental Illness. Voluntary Patients, Temporary Patients, and Patients under Certificates are admitted for Treatment. Fees: from 4 guineas a week upwards, according to requirements. A few vacancies exist for Ladies and Gentlemen at reduced fees on the recommendation of the Patient's own Physician.

Apply to Dr. J. A. SMALL.
Telephone: 80 Norwich. Telegrams: Small, 80 Norwich.

BROOKE HOUSE, CLAPTON

A PRIVATE HOME for the treatment of Nervous and Mental Disorders in both sexes. Situated in nine acres of Pleasure Grounds.

Voluntary, Temporary, and Certified Patients received.

For further particulars apply—
Dr. ERNEST ROLLINS, Resident Physician.
Tel.: Amherst 1642.

HOME for EPILEPTICS MAGHULL

(Near Liverpool)

FARMING and OPEN AIR OCCUPATION for PATIENTS

A few vacancies in 1st and 2nd Class Houses.

FEES:
1st Class (men only) from £3 p.w. upwards.
2nd Class (men and women) 32/- p.w.

For further particulars apply Secretary,

C. EDGAR GRISEWOOD, A.C.A., 20, Exchange St. East, Liverpool.

Smedley's Great Britain's Greatest Hydro Matlock

Unrivalled suites of Baths—Turkish and Russian Baths, Aix and Vichy Douches, Massage; Plombières Treatment. Studs Chair. Electric Installation for Baths and other Medical Purposes, Dowsing Radiant Heat, Infra-red Light, Artificial Sunlight, D'Arsonval High Frequency, Diathermy, Nauheim Baths, Soapless Foam Baths, etc. "Certified" Milk from own farm. Large Winter Garden. Orchestra. Special provision for Invalids. Night attendance. Over 60 trained Male and Female Nurses, Masseurs, Attendants, etc.

Resident Physicians: G. C. R. HARBINSON, M.B., B.Ch., B.A.O. (R.U.I.), H. RHYS DAVIES, B.A., M.B., B.Ch., B.A.O. **TERMS, 13s. to 18s. per day, include Turkish and other Baths.**

Illustrated Brochure C.J. on request.

'Phone: Matlock 17 (3 lines). *'Grams:* Smedleys, Matlock.

And Finally . . When satisfactory convalescence from pulmonary disorders depends on a healthy, invigorating atmosphere, Bournemouth offers the ideal winter residence. Long hours of sunshine, sheltered situation, and the resinous perfume of the thousands of pine trees combine to expedite the successful recovery of normal health and strength.

BOURNEMOUTH

For Health & Sunshine

Write for the "Book of Bournemouth" and any other information to the Publicity Manager, Room 15a, Town Hall, Bournemouth.

CITY OF LONDON MENTAL HOSPITAL

Near DARTFORD, KENT.

Ladies and Gentlemen received for treatment under certificates, and without certificates as either VOLUNTARY or TEMPORARY PATIENTS, at a weekly fee of £2 9s., and upwards.

ROYAL NAVAL DENTAL SERVICE

Applications are invited for appointment to Commissions as DENTAL OFFICERS in the Royal Navy.

Candidates, who must be British subjects below the age of twenty-eight years, must hold the Degree or Diploma of a British University or College of Surgeons and be registered under the Dentists' Acts or Medical Acts. Unmarried candidates are preferred. No examination in professional subjects will be held, but candidates will be required to attend at the Admiralty for interview, and for physical examination as to their fitness for service in any part of the world.

Successful candidates will be appointed to Short Service Commissions as Surgeon-Lieutenants (D) and will receive a grant of £50 towards the cost of providing the necessary uniform on entry. Vacancies in the permanent list will be filled by selection from among officers holding Short Service Commissions who desire to make the Royal Naval Dental Service their permanent career. Officers not transferred to the Permanent List will, on the termination of their short service engagement after six years' service, be eligible for a gratuity of £1000.

Opportunities are available for officers on the Permanent List for post-graduate study. The assistance of private income is not necessary for the purpose of supplementing official pay and allowances.

Naval Dental Officers are included in the Scheme for Marriage Allowance under the same conditions as for other Naval Officers.

Application forms and copies of the regulations for entry and conditions of service, rates of pay, and allowances, &c., may be obtained from the MEDICAL DIRECTOR-GENERAL OF THE NAVY, Admiralty, S.W.1, and from the Deans of Dental Schools.

The Hospital for Sick Children,

Great Ormond-street, London, W.C.1.

An OUT-PATIENT SURGICAL ASSISTANT is required.

Duties to commence early in February, 1939. Honorarium £50 per annum.

The appointment is tenable in the first instance for one year, but is renewable.

Duties will include attendance upon members of the Surgical Staff in the Out-patient Department on two mornings a week.

Candidates must possess a legal qualification to practise, and have held a responsible resident appointment at a General Hospital. Preference will be given to those holding the Fellowship of the Royal College of Surgeons of England.

Applications must be received by NOON on Monday, the 23rd January, 1939, and candidates must be prepared to attend for interview by the Joint Committee at 4.45 P.M. on Wednesday, the 1st February, 1939.

Full instructions and forms of application are obtainable from the undersigned.

HERBERT F. RUTHERFORD, Secretary.

December, 1938.

The Hospital for Sick Children,

Great Ormond-street, London, W.C.1.

A vacancy exists for a MORBID ANATOMIST AND SEBAG-MONTEFIORE RESEARCH FELLOW.

The appointment is whole-time and non-resident.

The appointment in the first place is for one year, but is renewable. Initial salary according to experience, but not less than £600 per annum.

The successful candidate will be required to take up his duties in March, 1939, or subsequently by arrangement.

Candidates must be registered Medical Practitioners and trained in Pathological Anatomy and Histology.

Applications, accompanied by copies of not more than three testimonials given specially for the purpose, must be delivered to the undersigned not later than Monday, 30th January, 1939.

Candidates must be prepared to appear before the Joint Committee at their Meeting on Wednesday, 1st February, 1939, at 4.45 P.M.

Forms of application and details of the appointment will be supplied on application.

HERBERT F. RUTHERFORD, Secretary.

November, 1938.

Vacancy, St. Thomas's Hospital.—

Applications invited for post of SURGICAL REGISTRAR AND TUTOR. Duties to commence 1st February, 1939. Annual appointment, renewable for maximum period of four years. Salary £250 per annum. Candidates should possess the diploma of the F.R.C.S.

Applications, together with full details of academic career and copies of testimonials, must be made on forms obtainable in Secretary's Office, St. Thomas's Hospital, and be sent to the Clerk to the Governors before 14th January, 1939.

Royal College of Physicians.

STREATFEILD RESEARCH SCHOLARSHIP IN MEDICINE AND SURGERY.

In accordance with the Trust founded by Mrs. Eliza Streatfeild for the promotion of Research in Medicine and Surgery, a Committee of the Royal College of Physicians of London and of the Royal College of Surgeons of England will proceed to appoint a STREATFEILD RESEARCH SCHOLAR.

The emolument will probably be £250 per annum, and the tenure of the Scholarship three years, at the discretion of the Committee, the appointment to date from May 1st, 1939.

A form stating the nature of the particulars which each candidate is required to give may be obtained from the Assistant Registrar, Royal College of Physicians, Pall Mall East, S.W.1.

Applications should reach the Assistant Registrar not later than Monday, January 23rd. The envelope should be marked "Streatfeild Scholarship."

Royal College of Physicians of London.

LEVERHULME RESEARCH SCHOLARSHIP.

A Leverhulme Research Scholarship will shortly be awarded by the Royal College of Physicians of London to commence in May, 1939.

The Scholarship will be of the annual value of £500, and will be for one year in the first instance, but renewable from year to year at the discretion of the College for a maximum of three years, though it may be extended over this period in exceptional circumstances.

Scholars must be British subjects of not less than twenty-five years of age and may be of either sex; preference will be given to persons holding a medical qualification.

Scholars must devote themselves to the investigation of some problem of disease in any branch of medicine. The work must have as its base some established institution, preferably in the United Kingdom, in which full facilities for the research are available.

Applications must be sent before Monday, January 23rd, to the Assistant Registrar, Royal College of Physicians, Pall Mall East, S.W.1, from whom application forms, and all details, may be obtained.

Royal College of Physicians, Edinburgh.

RESEARCH LABORATORY.

The Council of the Royal College of Physicians invite applications for the appointment of BACTERIOLOGIST to the Laboratory at a salary of £600 per annum.

The duties of the appointment entail the charge of the Bacteriological Department, the work of which includes: (1) Research; (2) reporting on materials submitted for examination; (3) the preparation of Vaccines.

The appointment is a whole-time one and will take effect from May 1st, 1939. Applications should be addressed to the Secretary, Royal College of Physicians, 9, Queen-street, Edinburgh, 2, from whom further details regarding duties may be obtained.

Applications should be accompanied by ten copies of recent testimonials (not exceeding four in number).

University of London.

The Senate invite applications for the UNIVERSITY READERSHIP IN BIOCHEMISTRY tenable at GUY'S HOSPITAL MEDICAL SCHOOL. Salary not less than £500 a year.

Applications (12 copies) must be received, not later than first post on 1st February, 1939, by the Academic Registrar, University of London, Senate House, W.C.1, from whom further particulars should be obtained.

RESEARCH FELLOWSHIP IN PHYSIO-THERAPY

at the

MIDDLESEX HOSPITAL.

Applications are invited.

The Fellow will conduct research, both experimental and clinical, under the direction of the Head of the Department of Physio-therapy, Dr. F. D. HOWITT, and the Professor of Physiology, Prof. SAMSON WRIGHT.

Preference will be given to candidates with good training in Physiology. The post will be substantially whole time. The initial salary is £250, but more may be offered to candidates having suitable qualifications. The appointment will be for one year in the first instance, and may be renewed for another year.

Candidates should send their applications to R. A. FOLEY, Medical School Secretary, Middlesex Hospital, London, W.1, and they should reach him not later than January 31st, 1939.

Paddington Green Children's Hospital

(Incorporated), London, W.2.

Applications are invited for the appointment of HONORARY PHYSICIAN to the Skin Department to attend the Clinic on Wednesday afternoons at 2 P.M. Candidates should be Members of the Royal College of Physicians, London.

Applications, stating age and qualifications, accompanied by copies of three testimonials, should reach the undersigned as soon as possible.

JAMES A. HAMLIN, Secretary.

HIS MAJESTY'S COLONIAL SERVICE

COLONIAL MEDICAL SERVICE

During 1939 the Secretary of State for the Colonies proposes to select a number of **MEDICAL OFFICERS** to fill vacancies, the majority of which will occur in **TROPICAL AFRICA** and in **MALAYA.**

QUALIFICATIONS.

Candidates must be British subjects of European parentage, under 35 years of age, and must possess a medical qualification registrable in the United Kingdom. Preference will be given to candidates who have held Hospital or Public Health appointments, or who have special knowledge of anæsthetics, radiology, surgery, medicine, ophthalmology, gynæcology and midwifery, diseases of the ear, nose and throat, venereal diseases, etc.

DUTIES.

Although Medical Officers are appointed in the first instance for general service, there are opportunities for work in special branches of medicine and surgery, in public health, and in medical research.

TERMS OF APPOINTMENT.

The appointments are pensionable, subject to a probationary period which varies from two to three years.

SALARY.

Initial salaries vary from £600 to £700, and rise by increments to a maximum of between £1,000 and £1,200.

After they are confirmed, officers become eligible in due course for promotion to higher specialist or administrative posts, with salaries varying from £1200 to £1800.

PRIVATE PRACTICE.

Private practice is not allowed as of right, but in the case of some appointments it is permitted on certain conditions.

QUARTERS.

In Tropical Africa, free quarters, or an allowance in lieu, are provided. In Malaya, quarters are provided at an annual rental not exceeding 6 per cent. of an officer's salary.

PASSAGES.

Free first-class passages are provided on first appointment and when returning from leave. Assistance is also given towards family passages.

COURSES OF INSTRUCTION IN TROPICAL MEDICINE and HYGIENE.

Selected candidates will normally be required to attend a course of instruction leading to the Diploma in Tropical Medicine and Hygiene before proceeding overseas.

Further particulars and forms of application may be obtained from the DIRECTOR OF RECRUITMENT (Colonial Service), 8, Buckingham Gate, London, S.W.1.

ROYAL NAVAL MEDICAL SERVICE

Vacancies exist for MEDICAL OFFICERS in the Royal Navy, and applications are invited for entry in March, 1939.

Candidates below the age of 28 years are preferred, and they must be registered under the Medical Acts. No examination in professional subjects will be held but candidates will be required to attend for interview by a Selection Board.

Selected candidates will be entered for Service for a period of three years, which if desired is usually extended to five years at the discretion of the Admiralty.

Officers who leave the Service at the end of the initial period of three years will be eligible for a gratuity of £400, and those who leave at the end of five years for a gratuity of £1,000.

At the end of five years' Short Service permanent commissions will be given to selected officers who wish to make the Naval Medical Service their permanent career. Officers transferred to the permanent list will receive a gratuity of £1,000 (less Income Tax).

Full opportunities exist for transfer to the permanent list. Marriage Allowance is paid under the same conditions as for other Naval Officers.

Opportunities are available for officers on the permanent list for post-graduate study, to specialise, to take higher examinations and to obtain further qualifications.

Copies of the regulations for entry and conditions of Service, including rates of pay, allowances and retired pay, may be obtained from the Medical Director-General of the Navy, Admiralty, S.W.1, and from the Deans of all Medical Schools.

Applications for entry from intending candidates must be received not later than 28th February, 1939.

Maida Vale Hospital for Nervous DISEASES, London, W.9.

HOUSE PHYSICIAN (required February 1st).

Applications are invited for the above post. Salary is at the rate of £100 per annum, and the appointment is for six months.

Applications, accompanied by copies of three recent testimonials, should reach me by January 11th.

The accommodation at the Hospital does not permit of women graduates holding this appointment.

L. C. DIXON, Secretary and General Superintendent.

East Ham Memorial Hospital, Shrewsbury-road, E.7. (104 Beds.)

Applications are invited for the post of RESIDENT MEDICAL OFFICER (Male). Duties to commence on 1st February, 1939.

The appointment will be for six months in the first instance, but the successful candidate will be eligible for reappointment.

Salary at the rate of £200 per annum, with board, residence, and laundry.

Preference will be given to candidates who hold the Diploma of F.R.C.S.

Applications, stating age, nationality, experience, and full particulars, together with copies of three testimonials, should reach the undersigned by 12th January.

REGINALD PERRY, Secretary.

Corporation of Willesden.

ASSISTANT MEDICAL OFFICER (Male).

A whole-time Medical Officer (Assistant, Male) holding a registrable qualification in Public Health is required in the Health Department of the Corporation of Willesden. Applicants must be under 40 years of age.

The salary is £600 per annum, rising after three years' satisfactory service by increments of £30 per annum to £750.

The appointment is subject to the Local Government and Other Officers' Superannuation Act, 1922, and the Local Government Superannuation Act, 1937; to three months' notice on either side; to the Council's Regulations concerning officers of the Council, and to residence within the Borough of Willesden. The successful applicant will be required to pass a medical examination.

Application forms, with full particulars of the appointment, may be obtained from the Medical Officer of Health, Health Department, 54, Winchester Avenue, Kilburn, London, N.W.6, and must be returned to him not later than 9 A.M. on Monday, the 16th January, 1939.

Envelopes containing communications relative to this appointment must have "Medical Officer" written in the top left-hand corner.

W. T. PIRIE, Deputy Town Clerk.

Town Hall, Dyne-road, Kilburn, London, N.W.6,
December, 1938.

The Infants Hospital, Vincent-square, Westminster.

The Committee of Management invite applications for the post of RESIDENT MEDICAL OFFICER.

Candidates must have held previous resident Hospital appointments for not less than six months, and must have had Pædiatric experience. The appointment is for one year from March 1st with eligibility for reappointment. Salary £300 per annum, with board, lodging, and laundry.

Candidates are expected to call upon, and send a copy of application and testimonials to, each member of the Honorary Medical and Surgical Staff.

Applications, with copies of testmonials, should be sent not later than January 30th to the undersigned, from whom copies of the rules may be obtained.

ARNOLD TUNSTALL.

Bolingbroke Hospital, Wandsworth Common, S.W.11. (135 Beds.)

HOUSE PHYSICIAN (Male, unmarried) required.

The appointment is for six months commencing on the 1st February, 1939. Salary £120 per annum, with board, residence, and laundry.

Candidates must be fully qualified and registered.

Applications, stating age, qualifications, and experience, with copies of not more than three testimonials, should be sent to the undersigned on or before the 11th January, 1939.

W. S. RANDOLPH BISS, Secretary-Superintendent.

Woolwich and District War Memorial HOSPITAL, Shooters-hill, London, S.E.18.

GENERAL HOSPITAL (112 Beds.)

The Board of Management invites applications from suitably qualified candidates for appointment as HONORARY ANÆSTHETIST for the Gynæcological session at NOON on Tuesdays. The honorarium will be fifty guineas per annum.

Applications should reach the undersigned by Monday, January 23rd, 1939, and short-listed candidates will be invited to meet the Appointments Committee on January 26th, at a time and place to be notified.

R. S. G. HUTCHINGS, Secretary.

Appointments for Medical Officers in The ROYAL AIR FORCE

Medical men are invited to apply for Short Service Commissions in the Royal Air Force.

Candidates must be registered under the Medical Acts and be not more than 31 years of age on entry.

The period of service is 3 years—extendible to 5 years. A gratuity of £400 or £1,000 is payable at the termination of 3 or 5 years respectively. Permanent commissions are awarded in a number of cases. These offer a pensionable career with the opportunity of extra leave on full pay for specialised study.

Applicants who hold—or are likely to hold—post-graduate appointments in civil hospitals may, on joining the Royal Air Force, be seconded until the termination of their appointments (for a period not exceeding one year) An antedate of commission, up to twelve months, is allowed for appointments held at approved hospitals.

Fuller information can be obtained from The Director of Medical Services, Air Ministry, Kingsway, London.

Royal London Ophthalmic Hospital
(MOORFIELDS EYE HOSPITAL),
City-road, London, E.C.1.

GIFFORD EDMONDS PRIZE IN OPHTHALMOLOGY.

The Prize of £100 awarded every two years is offered for the best Essay on a subject dealing with Ophthalmology and involving original work, and is open to any British Subject holding a medical qualification.

The Subject for the next essay is :—

"THE OCULAR MANIFESTATIONS OF GRAVES' DISEASE."

NOTE.—It is thought that this subject might suit the investigations of two observers writing in conjunction—e.g., a physician and an ophthalmic surgeon.

An essay, the combined work of two investigators, will be favourably received.

Preference will be given to original work based on any branch of the subject, rather than to compilations of the writings of previous observers.

Essays must be sent in not later than December 31st, 1940.

A leaflet giving full particulars of the prize may be obtained from the Secretary, Royal London Ophthalmic Hospital (Moorfields Eye Hospital), City-road, London, E.C.1.

Borough of Ealing.

ASSISTANT MEDICAL OFFICER.

Applications are invited from duly qualified Medical Men (single) with a Public Health qualification for the position of Assistant Medical Officer.

A candidate must have had experience in the treatment of cases of Infectious Diseases at an Isolation Hospital. The duties will include the medical care of patients in the EALING AND BRENTFORD and CHISWICK ISOLATION HOSPITAL, South Ealing, and the Medical Inspection and Treatment of School-children at Schools and Health Centres in the Borough of Ealing.

The person appointed will reside at the Isolation Hospital, where furnished rooms and board will be provided.

He will be required to devote his whole time to the duties and will not be allowed to engage in private practice. The salary will be at the rate of £450 per annum, rising by £25 per annum to a maximum of £550, plus board and residence, as indicated above and valued at £150 per annum.

A deduction of 5 per cent. will be made from the salary in accordance with the provisions of the Local Government and Other Officers' Superannuation Act, 1922, which has been adopted by the Council, and the appointment will be subject to passing the Council's medical examination in connexion therewith. Canvassing will be a disqualification.

Copies of application forms and terms of appointment can be obtained from Dr. Thomas Orr, Medical Officer of Health, Town Hall, Ealing, W.5, to whom application, accompanied by copies of not more than three recent testimonials, must be delivered not later than the 19th January.

R. H. WANKLYN, Town Clerk.

Town Hall, Ealing, W.5.

The Princess Elizabeth of York
HOSPITAL FOR CHILDREN,
Shadwell, London, E.1.
(Formerly East London Hospital for Children.)
(135 Beds.)

A HOUSE PHYSICIAN is required on 1st February, 1939, by the above Hospital.

Candidates are invited to send in their applications, addressed to the Secretary, by first post on Wednesday, 18th January, accompanied by copies of not more than three recent testimonials and evidence of having held a responsible hospital appointment. The appointment is for five months (until 30th June). Salary at the rate of £125 per annum, with board, residence, and laundry.

Candidates must be properly registered in this country. Forms of application and copies of the rules can be obtained from the Secretary-Superintendent.

Victoria Hospital for Children,
Tite-street, Chelsea, S.W.3. (138 Beds.)

The Committee of Management invite applications for the posts of :—

(*a*) HOUSE PHYSICIAN.
(*b*) HOUSE SURGEON.

both vacant 1st February, 1939. The appointments are for six months. Salaries at the rate of £100 per annum, with board, lodging, and washing.

Candidates are expected to attend a Sub-Committee for an interview and should send their applications and copies of three testimonials to the Secretary not later than first post on Wednesday, the 18th January, 1939. Travelling expenses, &c., will not be paid.

D. ST. JOHN BAMFORD, Secretary.

Battersea General Hospital
(Incorporated.) (85 Beds.)
London, S.W.11.

Applications are invited for the post of RESIDENT HOUSE SURGEON (Male or Female) at a salary of £130 per annum. The appointment is for a period of six months, commencing the 12th March, 1939.

Applications, stating age, nationality, qualifications, and experience, together with two copies of recent testimonials, should be sent to the Secretary at the Hospital not later than the 28th January.

National Temperance Hospital,
Hampstead-road, London, N.W.1.

Applications are invited for the following post:—

HOUSE PHYSICIAN. Salary £100 per annum, board, residence, and laundry allowance being provided. The appointment is for a period of six months as from February 1st. Preference will be given to those who have held resident posts.

Candidates must submit applications, stating qualifications, age, &c., with copies of not more than three testimonials, by Monday, January 9th, addressed to the Secretary.

Royal National Orthopædic Hospital.

Applications are invited for the posts of HOUSE SURGEON (two, Male, unmarried) at this hospital's country branch at Brockley-hill, Stanmore, Middlesex. 278 Beds (160 cases of Surgical Tuberculosis).

Salary £150 per annum, with board, quarters, and laundry. The appointments are for six months. Duties to commence, one on February 1st and one on March 1st. Applications, with copies of testimonials, should be sent to the Secretary, 234, Great Portland-street, W.1, not later than January 11th.

Hampstead General Hospital.
Haverstock-hill, N.W.3.

The Council of Management is prepared to receive applications for the office of RADIOLOGIST to the Hospital.

Candidates are required to be registered Medical Practitioners confined to the specialty of Radiology and should hold a diploma in Medical Radiology and Electricity.

Applications, stating age, qualifications, and experience, with copies of three testimonials, must reach the undersigned by 23rd January, from whom full particulars should be obtained.

By order of the Council.

KENNETH A. F. MILES, Secretary.

London County Council.

Applications invited for one full-time position of ASSISTANT MEDICAL OFFICER. Duties chiefly concerned with slum clearance and school medical work. Special experience relating thereto desirable. Applicants must hold diploma or degree in public health. Salary £750.

Application form with full particulars (stamped, addressed foolscap envelope necessary) from Medical Officer of Health (S.D.5), County Hall, Westminster-bridge, S.E.1, returnable by 21st January. Canvassing disqualifies.

London Hospital, E.1.

There is a vacancy for the post of CLINICAL ASSISTANT in the X-Ray Department. Candidates must be fully qualified medically. Experience in Radiology is essential. The honorarium of the post is £100 per annum.

Applications, with testimonials, should be sent to the House Governor, and should arrive not later than Saturday, January 14th, 1939.

ARTHUR G. ELLIOTT, House Governor.

King Edward Memorial Hospital,
EALING. (145 Beds.)

CASUALTY OFFICER AND DEPUTY RESIDENT MEDICAL OFFICER (Male) required for 1st February, 1939.

Six months' appointment, with possibility of re-election for a further period. Salary £225 per annum, with usual residential emoluments.

Applications, stating age, experience, and qualifications, together with copies of two recent testimonials, should be sent to the undersigned by the 9th January, 1939.

R. A. MICKELWRIGHT, House Governor.

The Royal Surgical Aid Society,

Salisbury-square, Fleet-street, E.C.4, desires the services of a JUNIOR SURGEON, who would be prepared to attend at the office as above, twice weekly, to prescribe appliances for patients. Applicants should be between thirty and forty years of age, Fellows of the Royal College of Surgeons of England, and with Orthopædic, Artificial Limb, and Surgical Appliance experience. The honorarium is 100 guineas per annum.

Further particulars may be obtained from the Secretary, address as above, by whom applications should be received not later than January 14th.

Hampstead General Hospital,
Haverstock-hill, N.W.3.

Applications are invited from single Medical Men for the following posts (*a*) HOUSE PHYSICIAN, (*b*) HOUSE SURGEON for six months vacant 1st February. Salary £100 per annum.

Applications on the prescribed form with three testimonials, to be returned to the Secretary by 21st January.

King George Hospital, Ilford (near London). (207 Beds.)

CASUALTY OFFICER AND SURGICAL REGISTRAR (Male) required for twelve months from 13th February. Salary £150 per annum.

Forms of application may be obtained from the undersigned, to whom they should be returned, not later than 25th January.

G. AUSTIN HEPWORTH, Secretary and Superintendent.

St. John's Hospital for Diseases of the SKIN, 5, Lisle-street, Leicester-square, W.C.2.

Applications are invited for the post of HONORARY ASSISTANT PHYSICIAN to the Hospital. Candidates must be Fellows or Members of the Royal College of Physicians of London, Edinburgh, or Dublin, or Fellows of the Royal College of Surgeons of England, Edinburgh, or Dublin.

Applications to be sent to the Secretary, from whom particulars can be obtained, on or before Saturday, January 28th, 1939. LEONARD G. R. TURPIN, Secretary.

2nd January, 1939.

St. John Clinic and Institute of PHYSICAL MEDICINE, Ranelagh-road, S.W.1.

HON. CONSULTANT RADIOLOGIST required. Applicants should preferably be on the staff of a General Hospital, and hold the D.M.R.E.

Applications should be addressed to the Secretary, St. John Clinic and Institute of Physical Medicine, Ranelagh-road, S.W.1, not later than January 21st, 1939.

London Jewish Hospital, Stepney Green, E.1.

CLINICAL ASSISTANT (Honorary) required in the Ophthalmic Out-patient Department. Attendance weekly on Fridays at 2 P.M.

Apply Secretary, London Jewish Hospital, Stepney Green, E.1.

Corporation of Barking. BARKING HOSPITAL.

RESIDENT MEDICAL OFFICER.

Applications are invited, before the 17th January, 1939, from qualified Medical Practitioners for the designated appointment of Resident Medical Officer at the Barking (Infectious Diseases) Hospital, comprising 108 Beds.

Previous medical appointments in infectious diseases hospital are highly desirable.

Subject to satisfactory service and the candidate having the necessary qualifications, the Resident Medical Officer will be given, if he/she desires, the opportunity of accepting the post of Assistant Medical Officer of Health, as and when such a position is vacant.

Salary £350–£25–£450, plus emoluments, valued at £150 per annum.

Particulars of duties and application forms may be obtained from the undersigned.

Prospective candidates requiring further information may communicate with the Medical Officer of Health, Public Health Department, Central Hall Chambers, East-street, Barking (Telephone: Rippleway 3880).

S. A. JEWERS, Town Clerk.

Town Hall, Barking, Essex.

Borough of Ilford.

APPOINTMENT OF ASSISTANT DENTAL SURGEON.

Applications are invited from Registered Dental Surgeons of either sex holding a degree or diploma in Dental Surgery for the above whole-time appointment at a commencing salary of £450 per annum, rising by annual increments of £25 to a maximum of £500 per annum.

The duties of the officer appointed will be mainly connected with the dental inspection of school-children, but he or she will be required also to assist when necessary with the other dental services of the Council.

The appointment is subject to the provisions of the Local Government and Other Officers' Superannuation Act, 1922, and to formal agreement, and the selected applicant will be required to pass a medical examination to the satisfaction of the Medical Officer of Health. The appointment will also be subject to three months' notice on either side.

Forms of application, together with the conditions of appointment and list of duties may be obtained from the undersigned.

Applications on the prescribed form, together with copies of two recent testimonials, must be received by me in an envelope endorsed "Assistant Dental Surgeon" at the Town Hall, Ilford, not later than the 23rd day of January, 1939.

Canvassing, directly or indirectly, will be a disqualification.

CHARLES N. ROBERTS, Town Clerk.

Town Hall, Ilford, 4th January, 1939.

Connaught Hospital, E.17. For WALTHAMSTOW, WANSTEAD, LEYTON, and CHINGFORD.

Applications are invited for the appointment of HONORARY PHYSICIAN.

Candidates must be Members or Fellows of the Royal College of Physicians, and preferably on the staff of a London Teaching Hospital.

Applications, together with copies of three testimonials, should be received by 20th January, 1939. The Hospital is one of 118 beds, including private wards.

R. HALTON HARRISON, General Secretary.

The Lawn, Lincoln.

ASSISTANT MEDICAL OFFICER required.

Medical Woman, with Mental Hospital experience or working for D.P.M. preferred.

Salary £300 per annum, with emoluments. Apply, Medical Superintendent, The Lawn, Lincoln.

Grimsby and District Hospital. (189 Beds.)

Applications are invited for the post of HOUSE PHYSICIAN. Remuneration £150 per annum, with board, residence, &c. Candidates must be fully qualified and registered, and previous Hospital appointment experience is desirable. Duties to commence 1st February, 1939. Appointment for six months, option of renewal.

Applications, stating age, qualifications, experience, and not more than three testimonials, to be forwarded to the undersigned at once.

H. B. COATES, Secretary-Superintendent.

3rd January, 1939.

Grimsby and District Hospital. (189 Beds.)

Applications are invited for the post of JUNIOR HOUSE SURGEON AND CASUALTY OFFICER (Male). Salary £150 per annum, with board, residence. Appointment for six months, option of renewal. Candidates must be registered under the Medical Acts.

Applications, with copies of three testimonials, to the undersigned at once. Duties to commence 1st February, 1939.

H. B. COATES, Secretary-Superintendent.

Grimsby and District Hospital. (189 Beds.)

Applications are invited for the post of RESIDENT SURGICAL OFFICER (Male). Salary £225 per annum, with board, residence. Appointment for six months, option of renewal. Candidates must be registered under the Medical Acts and previous Hospital experience is desirable.

Applications, with copies of three testimonials, to the undersigned at once.

H. B. COATES, Secretary-Superintendent.

3rd January, 1939.

Huddersfield Royal Infirmary. (321 Beds.)

Male HOUSE PHYSICIAN required to commence duty on 31st March, 1939.

Salary £150 per annum, with board, residence, and laundry. Appointment for six months, subject to renewal at the discretion of the Board of Management.

Applications, with copies of three recent testimonials, to be addressed to the undersigned immediately.

H. J. JOHNSON, General Superintendent and Secretary.

Huddersfield Royal Infirmary. (321 Beds.)

Male HOUSE SURGEON required to be attached to the Abnormal Maternity Department. Duties, which include the administration of anæsthetics, to commence on 1st February, 1939. Salary will be at the rate of £150 per annum, with board, residence, and laundry.

Appointment for six months, subject to renewal for a similar period.

Applications, with copies of three recent testimonials, to be addressed to the undersigned immediately.

H. J. JOHNSON, General Superintendent and Secretary.

Huddersfield Royal Infirmary. (321 Beds.)

Male CASUALTY OFFICER required to commence duty on 20th February, 1939.

Salary £200 per annum, with board, residence, and laundry. Appointment for six months. Prospect according to qualifications, experience, and satisfactory service.

The hospital is officially recognised for the surgical practice required of non-members before admission to the Final Fellowship Examination of the Royal College of Surgeons of England.

The post of Casualty Officer is next in seniority to that of Resident Surgical Officer.

Applications, with copies of three recent testimonials, to be addressed to the undersigned immediately.

H. J. JOHNSON, General Superintendent and Secretary.

Taunton and Somerset Hospital.

An HONORARY VISITING RADIOLOGIST, who must be registered as a Medical Practitioner by the General Medical Council, will be elected at an early date. The successful applicant will be required to reside sufficiently near the Hospital to enable him to discharge his duties.

Applications (endorsed "Radiologist") with qualifications and testimonials, to be sent on or before January 31st next, to F. J. J. STACEY, Secretary.

Personal canvassing will disqualify.

Caernarvonshire and Anglesey INFIRMARY BANGOR.

(GENERAL HOSPITAL.)

JUNIOR HOUSE SURGEON Wanted (Male) Salary £120 per annum, with residence, board, and laundry. Duties to commence at once.

Applications, stating age, qualifications, and nationality with two testimonials, should reach the Secretary at once.

Good opportunity for Medical and Surgical experience.

Manchester Royal Infirmary.

MEDICAL REGISTRAR TO OUT-PATIENT DEPARTMENT.
(Non-resident.)

The Board of Management of the Manchester Royal Infirmary invite applications for the above post, vacant 21st February, 1939. Applicants must hold a Medical and Surgical qualification and be registered and also have held a hospital appointment.

The appointment (mornings only—9 A.M. to 1 P.M., Sundays excepted) is for six months, renewable for further periods of six months, subject to the provisions of the bye-laws as to notice, &c. Salary £150 per annum.

Applications, stating age, with testimonials, to be sent to the Chairman of the Medical Board not later than 21st January, 1939.

By Order,
F. J. CABLE, General Superintendent and Secretary.
December, 1938.

Manchester Royal Infirmary.

BARNES CONVALESCENT HOSPITAL.

RESIDENT JUNIOR MEDICAL OFFICER.

The Board of Management of the Manchester Royal Infirmary invite applications for the above post vacant on 15th February, 1939. Applicants must hold a Medical and Surgical qualification and be registered and have held a hospital appointment.

The appointment is for six months, renewable for a further period of six months, subject to the provisions of the bye-laws as to notice, &c. Salary at the rate of £150 per annum, with board, residence, and allowance for laundry.

Applications, stating age, with testimonials, to be sent to the Chairman of the Medical Board not later than 21st January, 1939.

By Order,
F. J. CABLE, General Superintendent and Secretary.
December, 1938.

Manchester Royal Infirmary.

Posts vacant:—

Two HOUSE PHYSICIANS for 15th February, 1939.
Two HOUSE PHYSICIANS for 15th March, 1939.
Four HOUSE SURGEONS, General Surgical Units, for 15th February, 1939.
One HOUSE SURGEON, Aural, Gynæcological and Ophthalmic Departments, for 15th February, 1939.
One HOUSE SURGEON, Neuro-surgical Unit, for 15th February, 1939.
One HOUSE SURGEON, Orthopædic Unit, for 15th February, 1939.

The Board of Management of the Manchester Royal Infirmary invite applications for the above appointments.

The appointments for the General Surgical Units are for nine months and the others for six months, subject to the provisions of the bye-laws as to notice, &c. Salaries at the rate of £50 per annum, with board, residence, and allowance for laundry.

Applicants must hold a medical and surgical qualification and be registered. They may apply for more than one of the above posts and if so should state their preference.

Applications, stating age, qualifications, and experience to be sent to the Chairman of the Medical Board before 21st January, 1939.

By Order,
F. J. CABLE, General Superintendent and Secretary.
December, 1938.

Birmingham and Midland Eye Hospital.

(114 Beds.)

Applications are invited from duly qualified Medical Practitioners for the post of HOUSE SURGEON at the above Hospital.

Salary £130 per annum (rising to £150 at the end of six months' satisfactory service) and £10 laundry allowance.

The Resident Staff consists of a Resident Surgical Officer and three House Surgeons.

Applications, with testimonials, and evidence of registration, should be forwarded immediately to the undersigned.

J. W. PEARCE, House Governor.
Church-street, Birmingham, 3.

Royal Victoria Hospital, Dover.

66 Beds. Two Residents.

Wanted for beginning of February, R.M.O., duly qualified and registered. Salary £140 per annum, with board, residence, and laundry.

Applications, stating age, with particulars of experience, accompanied by copies of three recent testimonials, should be sent to the Secretary as soon as possible.

Harrogate Royal Bath Hospital.

(A National Hospital for Rheumatic and Allied Diseases.)
(150 Beds.)

Applications are invited for the post of RESIDENT MEDICAL OFFICER (Male) to commence duties beginning of February, 1939.

Salary £200 per annum, with board, residence and laundry.

Exceptional facilities for research or preparation of thesis.

Applications, stating qualifications, age, &c., with copies of recent testimonials, to be forwarded to the undersigned.

E. P. L. DIXON, M.A., Secretary.

The Salisbury General Infirmary, Wilts.

(200 Beds. 4 Residents.)

Applications are invited for the following posts, vacant on 1st February, 1939.

(*a*) RESIDENT MEDICAL OFFICER. Salary £250 per annum, with board, residence, and laundry. Tenable for a period of twelve months and renewable.

(*b*) HOUSE PHYSICIAN. Salary £125 per annum, with board, residence, and laundry. Tenable for a period of six months and renewable.

Candidates (Male) must be unmarried, and should have held previous hospital appointments.

Applications, stating age, nationality, qualifications, &c., together with copies of testimonials, should reach the undersigned not later than Saturday, 14th January, 1939.

JOHN WILLIAMS, Secretary-Superintendent.

Hull Corporation Health Department.

ANLABY ROAD INSTITUTION (HOSPITAL).
(580 Beds.)

MALE ASSISTANT MEDICAL OFFICER.

Applications are invited for the above appointment from duly qualified Medical Men under the age of forty years.

Salary £350 per annum, rising by annual increments of £25 to £450 per annum, together with an allowance at the rate of £150 per annum for board and residence outside the hospital.

As the appointee will be required to work mainly in the Medical Wards, preference will be given to candidates with higher degrees in Medicine and special post-graduate experience in General Medicine.

The hospital is equipped with modern X-Ray and Radium Departments.

The appointment will be designated under the Local Government and Other Officers' Superannuation Act, 1922.

Applications, on forms to be obtained from the undersigned, are returnable not later than 10 A.M. on Monday, the 16th January, 1939.

NICOLAS GEBBIE, M.D., Medical Officer of Health.
Health Department, Guildhall, Hull, December 21st, 1938.

City of Leeds.

PUBLIC HEALTH DEPARTMENT.

ST. JAMES'S HOSPITAL. (1330 Beds.)

RESIDENT MEDICAL OFFICER (Male).

Applications are invited for the above appointment, the duties of which are entirely medical. Candidates must be single, and should have had considerable experience in general medicine and possess one of the higher qualifications. The position offers excellent opportunity for extensive experience in medicine. The person appointed will be required to work under the direction of the Medical Superintendent and in association with the Visiting Physicians. He will also have the supervision of the immediate clinical work of four House Physicians.

Under the present scale of salaries of the Corporation the commencing salary for the post is £350 per annum, and the maximum £450 per annum, with annual increments of £25, subject to satisfactory service. The first increment will take effect on the 1st April following the completion of twelve months' service. Board, residence, and laundry are provided, these emoluments being valued for superannuation purposes at £120 per annum.

The person appointed will be required to pass a medical examination and to contribute to the Superannuation Fund established under the Local Government and Other Officers' Superannuation Act, 1922.

The appointment will be terminable by one month's notice.

Applications, on a form to be obtained from the undersigned, together with copies of three recent testimonials, and endorsed "Resident Medical Officer," must be received at the Public Health Department, 12, Market-buildings, Vicar-lane, Leeds, 1, not later than 10 A.M. on Monday, 16th January, 1939.

Canvassing in any form, either directly or indirectly, will be a disqualification.

J. JOHNSTONE JERVIS, Medical Officer of Health.

City of Leeds.

PUBLIC HEALTH DEPARTMENT.

ST. MARY'S INFIRMARY,
ARMLEY, LEEDS, 12.

RESIDENT MEDICAL OFFICER.

A Resident Medical Officer is required for St. Mary's Infirmary, Leeds (250 Beds). The hospital is a general hospital for chronic and semi-chronic cases with a section of 25 beds devoted to Maternity.

The appointment is for twelve months and the salary is £250 per annum inclusive, together with full residential emoluments. Any fees received must be paid into the city funds.

Candidates must have had experience in midwifery subsequent to qualifying. The duties of the officer include lecturing to the Nursing Staff and instruction of Pupil Midwives.

Applications, stating age, qualifications, &c., together with copies of three recent testimonials, to be forwarded to the undersigned not later than 10 A.M., on Monday, 16th January, 1939.

Canvassing in any form, either directly or indirectly, will be a disqualification.

J. JOHNSTONE JERVIS, Medical Officer of Health.
Public Health Department, 12, Market-buildings,
Vicar-lane, Leeds, 1.

Northamptonshire County Council.

APPOINTMENT OF ASSISTANT COUNTY MEDICAL OFFICER AND DISTRICT MEDICAL OFFICER OF HEALTH.

Applications are invited from registered Medical Practitioners holding a diploma in public health or similar qualifications for the appointment of Assistant County Medical Officer of Health under the above County Council and District Medical Officer for the Borough of Higham Ferrers and the Urban Districts of Irthlingborough and Rushden. The officer appointed will also ultimately be required to take over the appointments in other adjacent districts.

The inclusive salary will be at the rate of £800 per annum, with a travelling allowance on the scale from time to time approved by the County Council. Office accommodation and clerical assistance will be provided. The present allocation of the annual salary is—County Council £590, Higham Ferrers Borough Council, £30, Irthlingborough Urban District Council £50, and Rushden Urban District Council £130.

The appointments under the County Council and the Irthlingborough and Rushden Urban District Councils are designated posts for purposes of the Local Government and Other Officers' Superannuation Act, 1922, and the salary attaching to those appointments will be subject to a deduction of five per cent. per annum for superannuation, in accordance with the provisions of that Act.

The officer appointed will act under the County Medical Officer of Health as Assistant School Medical Officer and Assistant Medical Officer for Maternity and Child Welfare and perform such other duties as may be assigned to him by the County Council and County Medical Officer of Health.

The appointment will be subject to the Sanitary Officers (Outside London) Regulations, 1935, and the Local Government Act, 1933, and the officer appointed will be required to perform in the districts of the Local Sanitary Authorities referred to all the duties imposed on a District Medical Officer of Health by the relevant Acts, Orders, and Regulations.

The officer will be required to devote his whole time to the duties of the office and to reside in a place approved by the authorities.

The candidate appointed will be required to pass a medical examination.

The appointment will be determinable (subject to the relevant provisions of the Local Government Act, 1933) upon three months' notice on either side.

Applications, stating age, qualifications, and experience, together with copies of not more than three recent testimonials, should reach the undersigned not later than the 23rd January, 1939.

Canvassing will disqualify.

H. S. MARTIN, Clerk of the County Council.

County Hall, Northampton, 2nd January, 1939.

Leicester Royal Infirmary.

PART-TIME VENEREAL DISEASES OFFICER (Female).

Applications are invited for the position of Senior Medical Officer (woman) in charge of Women's V.D. clinics under general administrative control of the Director of Venereal Diseases Service. Salary £350 per annum.

The appointment is for a part-time Medical Officer, who will be allowed to engage in private, but not panel, practice. It is understood that an additional part-time appointment valued at £150 per annum will be offered to the successful candidate.

Applicants must be qualified in accordance with the new regulations of the Ministry of Health.

Applications, with copies of three testimonials, to be forwarded to the House Governor and Secretary not later than 12th January.

County Borough of Burnley.

MUNICIPAL GENERAL HOSPITAL

JUNIOR RESIDENT MEDICAL OFFICER (Male).

Applications are invited from fully qualified Medical Men for the position of Junior Resident Medical Officer at the Municipal General Hospital, Burnley, to take up duties on or about 1st February, 1939. The appointment will be for a period of twelve months.

Salary at the rate of £150 per annum for the first six months, £200 per annum for the second six months, plus full residential emoluments.

Applications, together with copies of testimonials, should be forwarded as early as possible to the Medical Officer of Health, St. James'-street, Burnley.

HARRY PLOWMAN, Town Clerk.

Town Hall, Burnley, 29th December, 1938.

Bootle General Hospital,

BOOTLE, LIVERPOOL, 20.

One HOUSE PHYSICIAN.
One GENERAL HOUSE SURGEON.
One HOUSE SURGEON TO SPECIAL DEPARTMENTS.
One CASUALTY OFFICER.

Applications are invited for the above posts, tenable for six months from the 1st April next. The salary attached to each post is £150 per annum, with board, residence, and laundry.

Applicants must be duly qualified and registered under the Medical Acts.

Applications, with copies of testimonials, should reach me by Saturday, 14th January.

A. J. COOPER, Secretary-Superintendent.

WOMEN'S MEDICAL SERVICE, INDIA

1. Applications for vacancies in the Women's Medical Service for India are invited from experienced medical women of Indian or British nationality, having qualifications registrable in the United Kingdom, or a degree of a British Indian University.

2. Full particulars regarding terms of service may be obtained from the Secretary, Countess of Dufferin's Fund, Red Cross Building, New Delhi, who will receive applications from residents in India or from Dr. A. C. Scott, C.B.E., Medical Adviser in the United Kingdom, c/o The High Commissioner for India, India House, Aldwych, W.C.2, who will receive applications from residents of the U.K.

3. Application forms and all particulars can be obtained from the Secretary in New Delhi or from Dr. A. C. Scott.

4. The Medical Adviser in the U.K. will forward applications of approved candidates to the Central Council in India, with whom the final selection rests. Other things being equal preference will be given to candidates available in India; apart from this, selection will depend on merit alone.

5. Applications will be received until February 15th, 1939.

Kent Education Committee.

SCHOOL MEDICAL SERVICE

DENTAL SURGEON.

Applications are invited from qualified candidates, not more than forty years of age, for the post of Dental Surgeon.

The successful candidate will be required to devote his whole time to the duties (which include the treatment of school children, children under school age and expectant and nursing mothers), and will work under the supervision of the School Medical Officer.

Salary £500 a year increasing by annual increments of £10 to £550 a year, together with travelling and subsistence allowances.

The appointment is subject to the provisions of the Local Government and Other Officers' Superannuation Act, 1922, and is terminable by three months' notice on either side. The successful applicant will be required to pass a medical examination as to physical fitness.

Applications, stating age and full qualifications, accompanied by copies of three recent testimonials, must be forwarded to the undersigned not later than 23rd January, 1939.

No form of application will be issued. Canvassing is a disqualification.

CONSTANT PONDER, M.D., School Medical Officer.

Sessions House, Maidstone, 2nd January, 1939.

Bristol General Hospital.

The Committee invites applications for the following appointments which become vacant on March 1st, 1939.

Two HOUSE PHYSICIANS, Three HOUSE SURGEONS, a RESIDENT OBSTETRIC OFFICER, a HOUSE SURGEON to the SPECIAL DEPARTMENTS, and a CASUALTY HOUSE SURGEON.

The appointments will be made for six months with salaries at the rate of £80 per annum and at the rate of £100 per annum for the Casualty House Surgeon, and in the event of a second appointment being held, at the rate of £100 per annum in each case with board, residence, &c., provided in the Hospital.

Candidates must be registered under the Medical Acts and produce testimonials of good personal character and ability, and must have recent experience in the administration of anæsthetics.

Forms of application, &c., to be obtained from the Secretary, must be completed and returned with copies of testimonials, addressed to the undersigned, on or before Saturday, January 28th, 1939, from whom further particulars may be obtained.

THOMAS W. GREGG, F.C.C.S., Secretary.

Dewsbury and District General

INFIRMARY, DEWSBURY. (100 Beds.)

The Senior Post is recognised by the Royal College of Surgeons (England).

Applications are invited for the post of SENIOR HOUSE SURGEON (Male), vacant in February. Salary £200 per annum, with board, residence, and laundry.

Also for the post of SECOND HOUSE SURGEON (Male). Salary £150 per annum, with emoluments. The duties are principally those of a House Physician and Casualty Officer.

The infirmary is a modern Voluntary Hospital and has the usual Special Departments, with Visiting Consulting Specialists in attendance.

Applications, *stating for which post*, age, and hospital experience, together with copies of recent testimonials, to be sent as immediately as possible to my office.

FRED SMITH, Secretary-Superintendent.

The Royal Eye and Ear Hospital,

BRADFORD. (94 Beds.)

Wanted, HOUSE SURGEON (Male). Salary £180 with board, residence, and laundry.

Applications, stating qualifications, age, &c., with copies of recent testimonials, to be forwarded to the undersigned on, or before, January 18th.

F. BRIGGS, Secretary-Superintendent.

Children's Hospital, Sunderland.

(70 Beds.)

HOUSE PHYSICIAN and HOUSE SURGEON (Female) required for six months from 1st February. Salary £120 per annum with board, laundry, &c.

Applications, stating age and qualifications and accompanied by testimonials, to be sent to the undersigned not later than 16th January, 1939.

M. J. HUNTLEY, House Governor and Secretary.

Swansea General and Eye Hospital.

(336 Beds.)

Applications are invited for the post of LOCUM HOUSE SURGEON to the E.N.T. and Ophthalmic Departments for a period of three months, commencing 8th January.

Salary £5 5s. per week, with board, residence, and laundry.

Applications, stating age, qualifications, experience, and nationality to be forwarded to the Secretary-Superintendent.

County Borough of Bournemouth.

ASSISTANT MEDICAL OFFICER OF HEALTH AND ASSISTANT SCHOOL MEDICAL OFFICER. (Male.)

Applications for the above are invited from duly registered Medical Practitioners who should be single and under forty years of age and hold a diploma of Public Health.

The person appointed may be required to undertake any public health work, but special experience of infectious diseases is desirable.

Board, lodging, and laundry will be provided at the hospital for infectious diseases, and for these a deduction of £100 per annum will be made from the salary. This will be from £500–£700 with annual increments of £25 and deductions for superannuation, but exception will be made in the favour of an applicant who is already receiving a salary between £500 and £600. There will be a travelling allowance of £30 per annum.

Application forms can be obtained from the Medical Officer of Health, Town Hall, Bournemouth, to whom they must be returned, with copies of three recent testimonials, not later than the first post of January 24th, 1939.

Canvassing of any kind will be a disqualification.

HERBERT ASHLING, Town Clerk.

Town Hall, Bournemouth, 30th December, 1938.

Bristol Royal Infirmary.

Applications are invited for the following Resident Medical appointments for the six months commencing March 1st, 1939.

Three HOUSE PHYSICIANS (one of whom also acts as House Physician to the CANCER DEPARTMENT).
Four HOUSE SURGEONS and one ASSISTANT HOUSE SURGEON.
One HOUSE SURGEON to the CASUALTY DEPARTMENT.
One HOUSE SURGEON to the EAR, NOSE, AND THROAT DEPARTMENT.
Two HOUSE SURGEONS to the FRACTURE DEPARTMENT.
One SENIOR OBSTETRIC HOUSE SURGEON.
One JUNIOR OBSTETRIC HOUSE SURGEON.

Salaries at the rate of £80 per annum, except in the case of the Senior Obstetric House Surgeon who will receive a salary at the rate of £100 per annum and the Senior Casualty House Surgeon who will receive a salary at the rate of £150 per annum.

Candidates, who must be duly qualified, to send in their application on forms to be obtained from the undersigned which must be returned on or before January 20th, 1939, together with copies of not more than three testimonials.

The elected candidates must become members of the Medical Defence Union before taking up their appointments.

ELLIS C. SMITH, F.C.I.S., Secretary and House Governor.

BARBADOS GENERAL HOSPITAL

Wanted, a duly qualified Medical Practitioner, Male, Single preferred, as HOUSE SURGEON AND ANÆSTHETIST (one of four House Surgeons) of The Barbados General Hospital (273 Beds). Experience in modern methods of Anæsthesia essential.

Salary £450 per annum, with quarters furnished for a single man, free water, lighting allowance, no local rates, Income Tax not exceeding 6d. in the pound.

The appointment is for three years subject to three months' notice on either side to terminate the engagement.

First-class passage out to Barbados direct will be paid by the Hospital Board for a full term of service, a proportionate part of which is to be refunded in case of service for a shorter period. First-class return passage to London direct from Barbados will be granted on satisfactory termination of full period of service.

Applications must be accompanied by a photograph, a recent medical certificate of physical fitness and recent professional and personal testimonials stating age and date of graduation, a recent certificate of proficiency in Administering modern Anæsthetics as Resident Anæsthetist of a Hospital of not less than 200 Beds, or of a Post-Graduate Course in Modern Anæsthesia at a recognised Medical School.

Canadian graduates must hold qualifications registrable in England.

Candidates holding a United States degree must be registered in the State of New York.

Applications will be closed on 28th February, 1939, and should be addressed to the Medical Superintendent, General Hospital, Barbados, B.W.I.

By Order,
J. WARD, Secretary.

County of Northumberland.

ST. GEORGE'S MENTAL HOSPITAL, MORPETH.

APPOINTMENT OF RESIDENT ASSISTANT MEDICAL OFFICER.

The Visiting Committee of the above-named Mental Hospital invite applications from fully qualified and registered Medical Practitioners for the above appointment. The successful candidate will be required to reside in the Hospital.

The commencing salary will be £500 per annum, together with the usual emoluments—i.e., furnished apartments, board, laundry, and attendance, valued for superannuation purposes at £125 per annum. An increase of £50 per annum will be granted on completion of twelve months' satisfactory service, and a further annual increment of £50 will be given, making the salary £600 per annum.

The candidate appointed will be required to pass a medical examination and to contribute under the Asylum Officers' Superannuation Act, 1909.

Applicants for the position should be approximately between the ages of 26 and 35 years and should have had not less than two years' experience in a Mental Hospital.

Applications, stating age and full particulars of qualifications, experience, and appointments held, accompanied by copies of three recent testimonials, to be enclosed in an envelope endorsed "Mental Hospital Assistant Medical Officer" and addressed to the undersigned so as to be received not later than 20th January, 1939.

C. HAROLD CARTER, Clerk of the Visiting Committee.

County Hall, Newcastle-upon-Tyne, 1, 29th December, 1938.

Runwell Hospital for Nervous and MENTAL DISORDERS, Near WICKFORD, ESSEX.

HOUSE PHYSICIAN required for the above Hospital (1007 Beds). Salary £150 per annum, with apartments, board, attendance, and laundry. Six-monthly appointments renewable for a further six months. Excellent opportunities for post-graduate work. The Hospital provides facilities for treatment in all its aspects and is equipped with up-to-date laboratories.

Applications, together with copies of recent testimonials (not more than three), to be forwarded to the Physician Superintendent, to reach him not later than Friday, 13th January, 1939.

Envelopes to be marked "House Physician" in the top left-hand corner.

City and County of the City of Exeter.

ASSISTANT MEDICAL OFFICER OF HEALTH (Woman).

Applications are invited for the appointment of Assistant Medical Officer of Health (Woman) for the City and County of the City of Exeter at a salary of £500 per annum, rising by annual increments of £25 to a maximum of £700 per annum. The appointment will be subject to deductions in accordance with the provisions of the Local Government and Other Officers' Superannuation Act, 1922, and the successful candidate will be required to pass a medical examination.

The appointment may be determined by either party at any time by three months' notice in writing.

The main duties will be in connexion with the school medical and maternity and child welfare services of the Council, but the officer appointed will be required to undertake such other public health duties as may be allotted to her. Applicants must produce evidence of special skill and experience in dental anæsthesia.

Canvassing, either directly or indirectly, will disqualify.

Applications, endorsed "Assistant Medical Officer of Health," accompanied by copies of three recent testimonials, must be received by me not later than the 31st January, 1939.

Application forms and particulars of the appointment may be obtained from the undersigned.

C. J. NEWMAN, Town Clerk.

10, Southernhay West, Exeter, January, 1939.

St. Anne's Home, Altrincham, Cheshire.

Wanted, a RESIDENT SURGICAL OFFICER (Male) for the above Hospital (50 Beds). Must be registered. Salary £200 per annum, with board, apartments, &c. This Hospital is the Ear, Nose, and Throat Department of the Manchester Hospital for Consumption and Diseases of the Ear, Nose, Throat, and Chest, and duties include attendance on two mornings a week at the Out-patient Department, Manchester.

Applications, with copies of testimonials, to be sent not later than January 21st to W. HUNT, Secretary, 45, Hardman-street, Deansgate, Manchester, 3.

North Riding Infirmary, Middlesbrough

(General Hospital. 143 Beds. Three Residents.)

Wanted at once THIRD HOUSE SURGEON and HOUSE PHYSICIAN. The appointment will be for not less than six months, and renewable. Salary £140 per annum, with board, residence, and laundry.

Candidates, who must be male, unmarried and of British nationality, are asked to state whether they are prepared to apply for the post of CASUALTY OFFICER (£150 per annum) in the event of the present Resident being appointed.

Applications, stating age, qualifications, and experience, together with copies of three recent testimonials, should be sent to the undersigned forthwith.

GERALD A. KENYON, Secretary-Superintendent.

Adwick-le-Street and Bentley-with-Arksey Urban District Councils.

COUNTY COUNCIL OF THE WEST RIDING OF YORKSHIRE.

JOINT APPOINTMENT OF MEDICAL OFFICER OF HEALTH AND ASSISTANT COUNTY MEDICAL OFFICER.

Applications are invited from registered Medical Practitioners holding the Diploma in Public Health, or its equivalent for the above-named whole-time appointment, subject to the provisions of the Sanitary Officers (Outside London) Regulations, 1935, and the Local Government Act, 1933.

The salary attached to the post is £800 per annum, advancing, subject to satisfactory service, by annual increments of £50 to a maximum of £1000 per annum, together with an allowance for travelling expenses of £75 per annum. Office accommodation and any necessary clerical assistance will be provided, or, if necessary, an allowance will be made for their provision. The candidate must not be more than forty-five years of age.

The appointment will be made jointly by the County Council and the District Councils, and the person appointed will not be permitted to engage in private practice and will be required :—

(*a*) To reside either in Adwick-le-Street or Bentley-with-Arksey, or within such distance therefrom as may be approved.

(*b*) As Medical Officer of Health of the Urban Districts of Adwick-le-Street and Bentley-with-Arksey to perform all the duties imposed on a Medical Officer of Health by the relevant Acts and Orders.

(*c*) In his capacity as Assistant County Medical Officer to act under the control and direction of the County Medical Officer.

(*d*) To perform such other public health duties, not being incompatible with the above, as the Councils may jointly decide upon.

In his capacity as Assistant County Medical Officer his duties are calculated to occupy 171 working half days per annum, and will, in the first instance, chiefly consist of the medical inspection of school-children attending the elementary schools in the Adwick-le-Street and Bentley-with-Arksey Urban Districts and the boys who will attend at a secondary school in course of erection in Adwick-le-Street Urban District, but the nature of the duties will be subject to such alterations as may be deemed necessary.

The appointment will be subject to the provisions of the Local Government and Other Officers' Superannuation Act, 1922, and to the successful candidate passing a medical examination as to his physical fitness.

Applications, stating age, qualifications, and experience, on prescribed forms, accompanied by copies of not more than three recent testimonials, should reach the Clerks to Adwick-le-Street and Bentley-with-Arksey Urban District Councils, Bank Chambers, High-street, Doncaster, in an envelope endorsed "Medical Officer of Health" not later than 10 A.M. on Monday, the 16th January, 1939.

Canvassing members of the adopting bodies directly or indirectly shall disqualify any candidate for the appointment.

C. R. MARSHALL,
Clerk to Adwick-le-Street Urban District Council.
W. H. CARLILE,
Clerk to Bentley-with-Arksey Urban District Council.

The Corporation of the City of Glasgow.

POLICE DEPARTMENT.

APPOINTMENT OF WHOLE-TIME CASUALTY SURGEONS.

The Corporation of the City of Glasgow propose to appoint three whole-time Casualty Surgeons to the Glasgow Police Force, and applications are invited from Members of the Medical Profession having the necessary qualifications for these appointments.

Candidates, unless they are at present in the service of the Corporation, must not be less than thirty nor more than forty-five years of age. The salary fixed for the positions is £600 per annum, rising by biennial increments of £30 to £750 per annum, for each of the three appointments.

The appointments will be made subject to the conditions and duties laid down by the Corporation, a copy of which together with the necessary Form of Application may be obtained at the Office of the Subscriber, Room 44, City Chambers, Glasgow. The candidates recommended for the appointment must be physically fit and undergo a medical examination for admission to the Corporation Superannuation Scheme in respect of which a deduction will be made from their salaries at the rate of 5 per cent. per annum.

Applications on the prescribed form must be lodged with the undersigned not later than Tuesday, 31st January, 1939, endorsed on the outside "Casualty Surgeons."

J. L. MACKENZIE, Town Clerk.

City Chambers, Glasgow, C.2, 28th December, 1938.

Rochdale Infirmary and Dispensary.

(110 Beds.)

The Board of Management invite applications for the appointment of SENIOR HOUSE SURGEON.

The salary attached to the appointment is at the rate of £250 per annum, including board, residence, and laundry.

Applications, stating age, nationality, &c., together with copies of three recent testimonials, to be sent to the Secretary endorsed "House Surgeon." Conditions of the appointment may be had on application to the Secretary.

W. WYNNE, Secretary.

Infirmary Office, Rochdale, Lancs.

Stroud Urban and Rural Districts and Nailsworth Urban District.

APPOINTMENT OF MEDICAL OFFICER OF HEALTH AND SCHOOL MEDICAL INSPECTOR.

Applications are invited for the appointment of Medical Officer of Health for the above three districts which include an area of 38,422 acres and a population of 38,819. Applicants must be duly qualified and registered Medical Practitioners, hold a Diploma in Public Health or other equivalent qualification, and be under forty years of age.

The applicant appointed will be required to perform the duties of Medical Officer of Health prescribed by the Sanitary Officers (outside London) Regulations, 1935, to act as Medical Superintendent of the Stroud Joint Hospital Board which serves the above three Districts, to undertake medical inspection of children in the schools of the area and to give assistance in other medical work of the County Council as desired. He must reside in or near Stroud and his house must be connected with the Telephone Exchange.

The salary will be £800 per annum, rising by annual increments of £25 per annum to £900 per annum. An allowance of £150 per annum will be paid in respect of travelling and office expenses.

The successful applicant will be required to take up his duties on the 1st April, 1939.

Forms of application can be obtained from either of the undersigned. Applications endorsed "Medical Officer of Health" must be sent, together with copies of three testimonials, not later than the 1st February, 1939, to Mr. G. E. G. Gadsden.

Applicants canvassing either directly or indirectly will be automatically disqualified.

H. S. GIBBONS (Stroud), Clerk, Stroud Urban District Council.
G. E. G. GADSDEN (Stroud), Clerk, Stroud Rural District Council.
G. H. PAVEY SMITH (Nailsworth), Clerk, Nailsworth Urban District Council.

Northumberland County Council.

WOOLEY SANATORIUM, near HEXHAM.
For the Treatment of Adults Suffering from Tuberculosis.
(180 Beds.)

Applications are invited for the appointment of an ASSISTANT MEDICAL OFFICER at the above Sanatorium. Salary £350 per annum, rising by annual increments of £25 to a maximum of £450, with board, lodgings, and laundry.

The salary will be subject to a percentage deduction in accordance with the provisions of the Local Government and Other Officers' Superannuation Act, for which purpose the selected candidate must undergo a medical examination.

Applicants should be unmarried.

The appointment may be terminated by three months' notice on either side.

Applications containing essential particulars should be addressed to the undersigned, together with copies of three recent testimonials, as soon as possible.

WILLIAM F. J. WHITLEY, County Medical Officer.

County Hall, Newcastle-upon-Tyne., 1.

Borough of Southall.

APPOINTMENT OF ASSISTANT MEDICAL OFFICER OF HEALTH.

Applications are invited from duly qualified Medical Men and Women with a public health qualification for the position of full-time Assistant Medical Officer of Health.

The candidate must have had experience in the treatment of cases of Infectious Diseases at an Isolation Hospital, experience in Maternity and Child Welfare Work, and at least three years' experience in the practice of medicine.

The salary will be at the rate of £600 per annum, rising (subject to satisfactory service) by annual increments of £25 to a maximum salary of £700 per annum, with an appropriate car maintenance allowance according to the Council's scale. A deduction will be made from the salary in accordance with the provisions of the Local Government and Other Officers' Superannuation Act, 1922, and the appointment will be subject to the successful candidate passing the Council's medical examination in connexion therewith.

Copies of the application form and conditions of appointment can be obtained from the Medical Officer of Health at the Manor House, Southall, to whom applications, accompanied by copies of not more than three recent testimonials, must be delivered not later than 12 o'clock (NOON) on the 14th January, 1939.

Canvassing any Member of the Council by or on behalf of any candidate is prohibited, and will result in the disqualification of that candidate, and each candidate is required to state whether or not he or she is related to any Member or Chief Officer of the Council.

W. STALEY BROOKES, Town Clerk.

Town Hall, Southall, Middlesex, 19th December, 1938.

Royal Sussex County Hospital,

BRIGHTON, 7.

Applications are invited for the office of HONORARY ORTHOPÆDIC SURGEON from gentlemen who are Masters of Surgery of one of the Universities of the British Empire, or Fellows of the Royal College of Surgeons of England, Edinburgh, or Ireland, and who are duly registered under the Medical Acts.

Particulars of the duties of the appointment may be obtained from, and applications must reach the undersigned at the hospital before 12 NOON on the 21st January, 1939.

L. L. W. LANCASTER-GAYE, Secretary-Superintendent.

County Borough of Halifax.

ASSISTANT MEDICAL OFFICER OF HEALTH—MATERNITY AND CHILD WELFARE (Female).

Applications are invited from duly qualified and registered Medical Practitioners for the post of whole-time Assistant Medical Officer of Health—Maternity and Child Welfare (Female), experienced in Ante-natal work, Midwifery and Children's Diseases, to hold consultations at the Ante-natal and Maternity and Child Welfare Centres in the County Borough of Halifax and to perform such other duties as appertain to the office.

The person appointed will be a member of the Staff of the Medical Officer of Health and will work under his control and direction. She will be required to devote her whole time to the duties of her office and not to engage in private practice of any description.

The salary offered is £500 per annum, rising by annual increments of £25 to £700 and the post will be subject to the provisions of the Local Government Superannuation Act, 1937.

Applications must be made on the prescribed form, to be obtained from the undersigned, and delivered, accompanied by copies of three recent testimonials, not later than first post on Monday, 23rd January, 1939, endorsed "Assistant M.O.H.—Maternity and Child Welfare" and addressed to the Town Clerk, Town Hall, Halifax.

Canvassing, either directly or indirectly, will be a disqualification.

PERCY SAUNDERS, Town Clerk.

Town Hall, Halifax, 3rd January, 1939.

City of Birmingham.

PUBLIC HEALTH AND MATERNITY AND CHILD WELFARE DEPARTMENT.

LITTLE BROMWICH HOSPITAL FOR INFECTIOUS DISEASES.

JUNIOR RESIDENT MEDICAL OFFICER.

Applications are invited for the post of Junior Resident Medical Officer (Male). Candidates must be unmarried and must have held previous resident posts in general or children's hospitals.

Salary will be at the rate of £300 per annum, together with board, &c., valued at £150 per annum. The appointment is limited to twelve months.

The officer appointed will be required to take up duty on March 1st.

It is not feasible to attend classes for the D.P.H. in conjunction with this appointment.

Forms of application may be obtained from the Medical Superintendent, Dr. J. McGarrity, Little Bromwich Hospital, Birmingham, 9, and should be returned to him on, or before, January 21st, 1939.

F. H. C. WILTSHIRE, Town Clerk.

The Council House, Birmingham.

The Prince of Wales's Hospital,

GREENBANK ROAD, PLYMOUTH.
(Formerly South Devon and East Cornwall Hospital.)
(264 Beds.)

Applications are invited for the posts of HOUSE PHYSICIAN and HOUSE SURGEON. Salary £120 per annum, with board, residence, and laundry.

Appointments are tenable for seven months and are subject to renewal. Duties to commence 10th February.

The Hospital is officially recognised for the surgical practice required before admission to the Final Fellowship Examination of the Royal College of Physicians and Surgeons of England.

Applicants must be registered under the Medical Acts and be members of either the Medical Defence Union or the London Counties Medical Protection Society.

Applications, stating age and qualifications, with copies of three recent testimonials, to reach the undersigned by the 20th January.

ARTHUR R. CASH, General Superintendent.

2nd January, 1939.

New Sussex Hospital for Women,

Windlesham-road, BRIGHTON.

Applications are invited from fully qualified Medical Women for the post of HOUSE SURGEON for six months. Duties to commence on the 31st January. Salary at the rate of £100 per annum.

Applications, with copies of three recent testimonials, to be sent to the Secretary, New Sussex Hospital, Windlesham-road, Brighton, on or before the 14th January.

West Kent General Hospital

(Incorporated),
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W. H. HARPER, House Governor.

Wolverhampton, 2nd January, 1939.

Royal West Sussex Hospital,

CHICHESTER.

The Board of Management invites applications for the post of HONORARY ASSISTANT SURGEON.

Candidates must be duly registered under the Medical Acts, a Member of the Royal College of Surgeons of England, or hold a Degree of Surgery of a recognised University or a Fellowship recognised by the General Medical Council. The appointment will be made by the Special Election Committee at a meeting to be held on 24th January, 1939, and applications should be sent to the undersigned by the 20th January, 1939.

Canvassing directly or indirectly will disqualify.

By Order of the Board of Management,

J. COXON INCE, Secretary.

Royal West Sussex Hospital,

CHICHESTER.

The Board of Management invites applications for the post of SECOND HONORARY RADIOLOGIST.

Candidates must be duly registered under the Medical Acts and must submit evidence of special training and proficiency in Radiology and Electro-therapeutics and must practice only in this specialty, which may include treatment with Radium. The appointment will be made by the Special Election Committee at a meeting to be held on 24th January, 1939, and applications should be sent to the undersigned by the 20th January, 1939.

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Candidates, who must be fully qualified and registered, should send in their applications to the undersigned on or before 4th February, 1939.

HAROLD F. SHRIMPTON, House Governor.

County Borough of Preston.

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Applications, stating age, qualifications, and experience, together with copies of three recent testimonials, should reach the Medical Superintendent not later than first post on the 21st January, 1939.

Gloucestershire County Council.

ASSISTANT COUNTY MEDICAL OFFICER OF HEALTH.

Gloucestershire County Council invite applications for the appointment of an Assistant County Medical Officer of Health (Male). The salary will be on the scale £600 per annum by £25 to £700 per annum. Travelling and subsistence allowances will be paid in accordance with the Council's scale. The post is designated for the purposes of the Local Government and Other Officers' Superannuation Act, 1922, and the successful candidate will be required to pass a medical examination by the Council's medical adviser. Applicants must be registered Medical Practitioners and should hold a Diploma in Public Health. Previous experience in various branches of public health and school medical work is desirable. Forms of application, with particulars of the duties and conditions of appointment, may be obtained from the County Medical Officer of Health, Shire Hall, Gloucester, to whom completed applications, with copies of three recent testimonials, should be sent not later than the 17th January, 1939. Canvassing, directly or indirectly, will disqualify.

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Applications, with copies of testimonials, to be sent to the undersigned.

ARTHUR TAYLOR, Superintendent and Secretary.

2nd January, 1939.

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RICHARD H. PRESCOTT, Secretary and House Governor.

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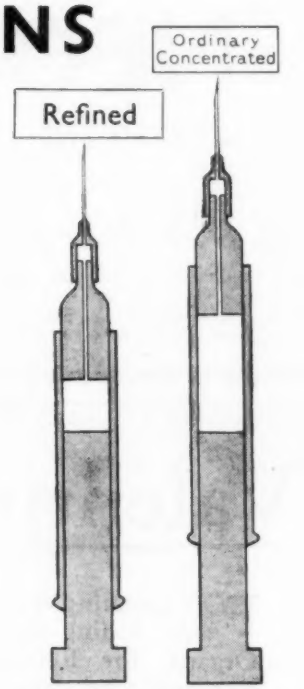

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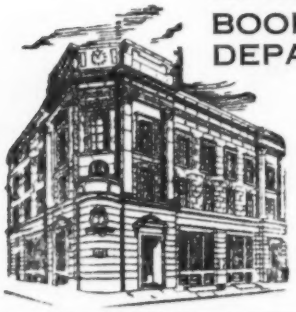

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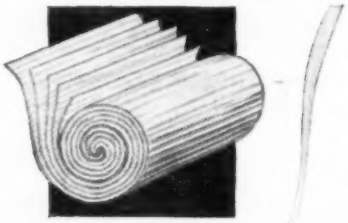

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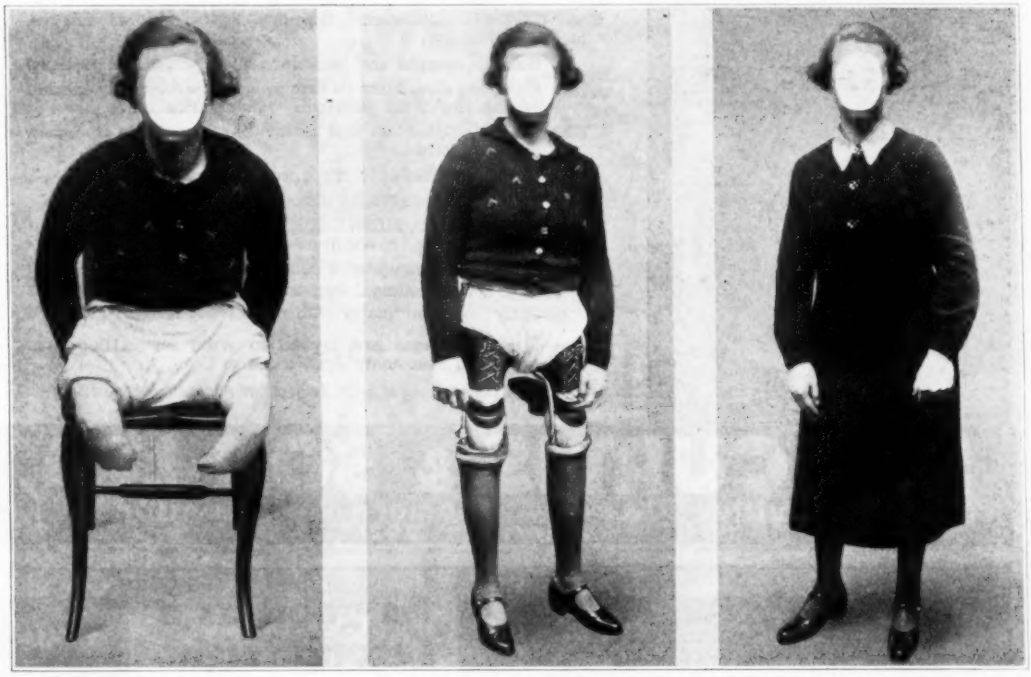

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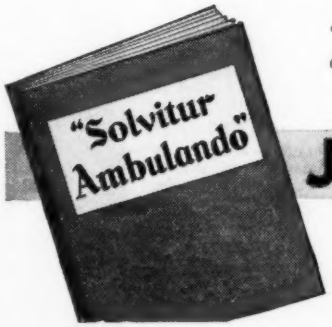

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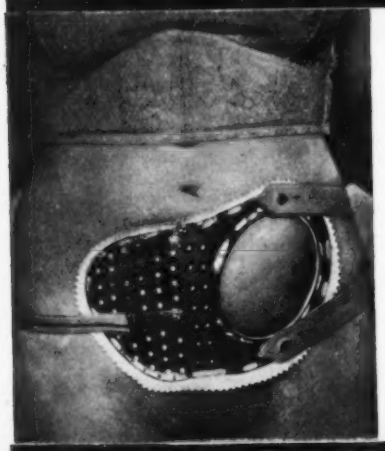

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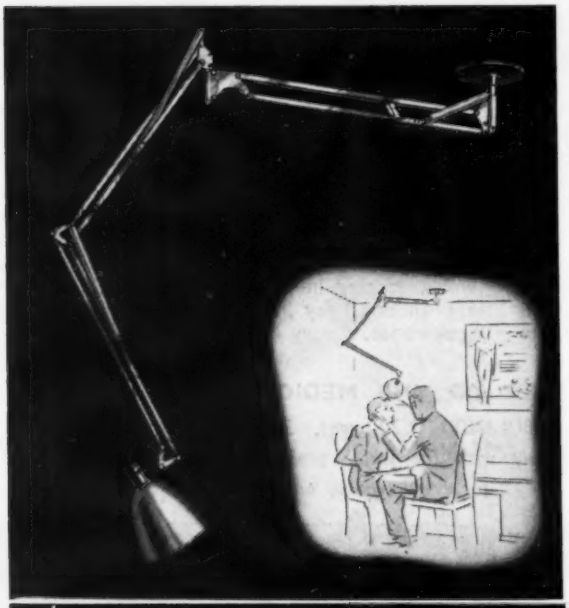

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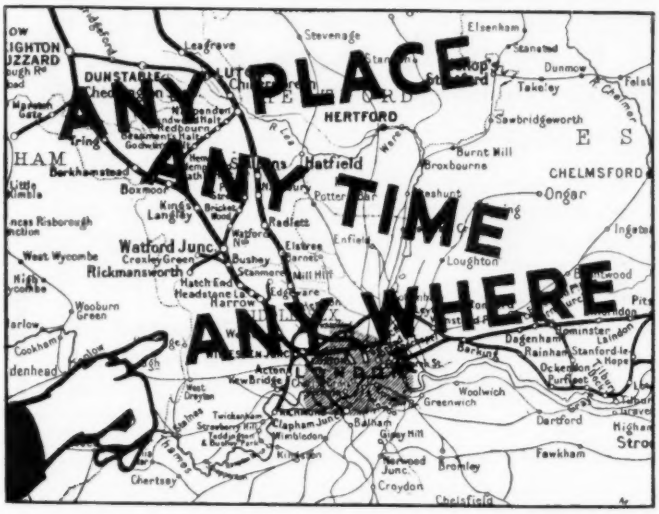

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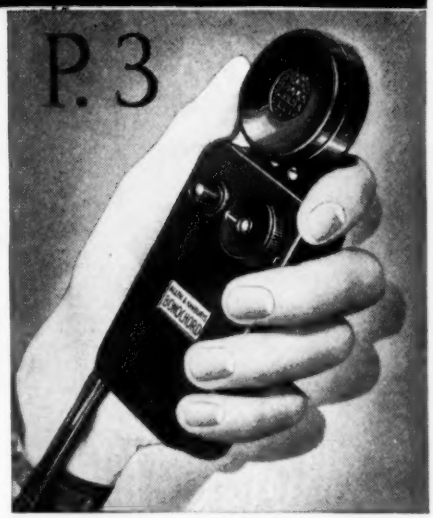

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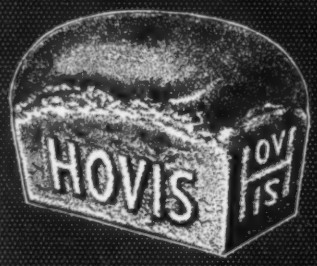

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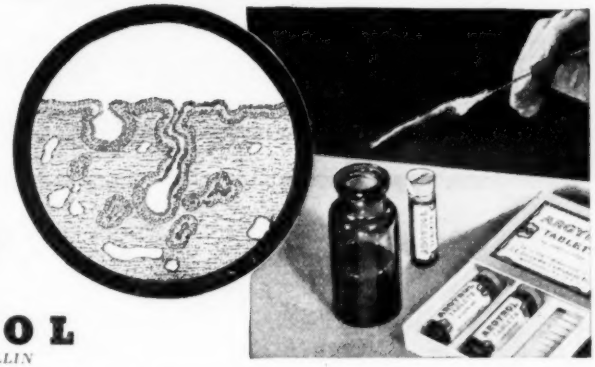

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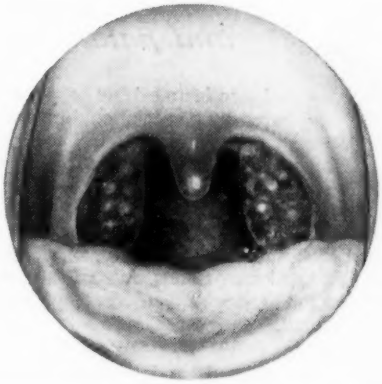

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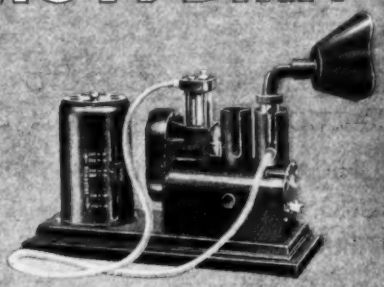

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'Dettolin' is specially made to kill quickly the micro-organisms concerned in affections of the mouth and throat. It contains, among other ingredients, the active germicidal principle of 'Dettol'—the modern antiseptic. For all its high germicidal efficiency, 'Dettolin' is gentle to tissue. It has the added advantage of being distinctly pleasant to use, an important factor when frequent and regular gargling, is prescribed.

'Dettolin' is obtainable from Chemists and Medical Suppliers. Prices 9d. and 1/3. Sample, and full information on request.

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ANTI-MENORRHAGIC FACTOR "GLANULES"

ANTI-MENORRHAGIC FACTOR IS A NEWLY DEMONSTRATED ACTIVE FRACTION OF MAMMALIAN LIVER.

CLINICAL RESEARCH HAS REVEALED THAT THE OUTSTANDING ACTION OF THIS FRACTION IS THAT OF CHECKING THE FUNCTIONAL UTERINE HÆMORRHAGE OF MENORRHAGIA AND METRORRHAGIA.

SUPPLIED IN BOTTLES OF 25, 50, & 100 "GLANULES"

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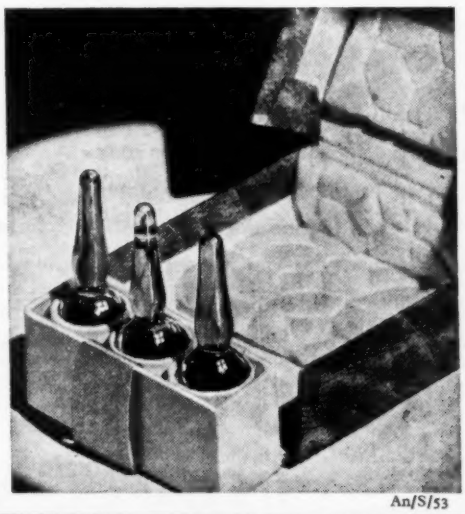
'. . . a truly marvellous result' - - — M.B. Ch.B.

Thus does a physician sum up his experience in a case of pernicious anæmia treated with Anahæmin B.D.H. In the specific case reported upon, during a period from 12.10.38 to 10.11.38, the red cells rose from 1,350,000 to 4,200,000, the white cells from 2,400 to 4,200, hæmoglobin from 34% to 86%, and the colour index fell from 1.2 to 1.0. These results were achieved by the following dosage; an initial dose of 4 c.c., followed four days later by 1 c.c. and, subsequently, for three weeks by weekly injections of 1 c.c., making in all a total of 8 c.c.



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Sample on request

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Telephone: Clerkenwell 3000
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An/S/53

MODERN COD LIVER OIL AS THE METHOD OF CHOICE FOR ADMINISTERING VITAMINS A and D

In view of the widely divergent opinions expressed concerning the dosage and vitamin content of various liver oils, the proprietors of 'SevenSeaS' cod liver oil wish to remind the medical profession that on January 1st, 1936, the British Pharmacopœia Commission laid down not only a definite dosage, but also a definite standard of vitamin content for cod liver oil.

The dosage was fixed at a minimum of 15 minims (a quarter teaspoonful) three times a day, and the vitamin content was standardised at not less than 600 International Units of Vitamin A and not less than 85 International Units of Vitamin D per gramme.

In 'SevenSeaS' Standard Oil, the practitioner has at hand a cod liver oil of the highest quality, fresh, easily digestible, and with a uniform vitamin content guaranteed to conform to the standard of the British Pharmacopœia. The oil is rendered from the livers at sea as soon as the fish are caught (a process impossible with any other fish liver), instead of waiting until the ship is back in port and the livers consequently stale. The high quality of 'SevenSeaS' cod liver oil, and the uniformity of its vitamin content arising from its method of preparation make it possible to prescribe only small doses which cannot give rise to acidosis.

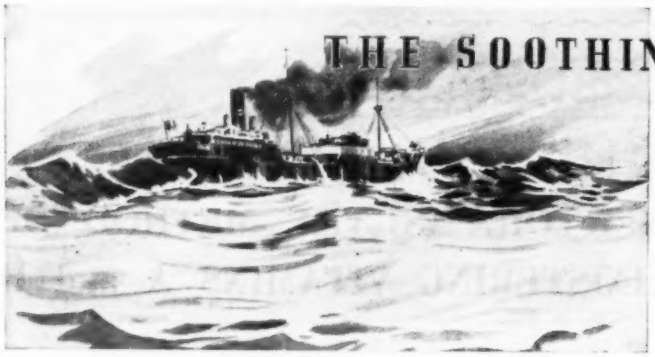
These attributes are still further increased in the case of 'SevenSeaS' High Potency cod liver oil which is guaranteed to be four times as rich in vitamin values as the standard oil of the Pharmacopœia. *With this oil available the practitioner who wishes to prescribe a particularly small dosage has the advantage of using a fresh cod liver oil without going far in excess of the standards laid down by the Pharmacopœia regarding vitamin content.*

This High Potency Oil is not reinforced or in any way treated to increase the vitamin content. It is simply pure natural oil obtained by selection from the richest livers on the best fishing grounds.

All 'SevenSeaS' cod liver oil is tested and packed in strict conformity with British Pharmacopœia requirements.

Samples of the High Potency Oil, the Standard Oil, and the High Potency Oil in Capsules; will be supplied on request.

BRITISH COD LIVER OIL PRODUCERS (HULL) LTD. · ST. ANDREW'S DOCK • HULL • ENGLAND



THE SOOTHING EFFECT OF OIL

The adhesive properties of the oily base in 'Endrine' enable the active medicaments to maintain contact with the nasal mucosa for an appreciable time. Furthermore the oil contents have a soothing effect on inflamed mucous surfaces.

'ENDRINE'
BRAND NASAL COMPOUND Regd.

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Distributors for Petrolagar Laboratories Ltd.

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MENORRHAGIA - MENOPAUSE

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The physician readily can ascertain whether his prescription for Ergoapiol (Smith) has been correctly filled by dividing the capsule at the seam, thus revealing the initials M.H.S. embossed on the *inner* surface, as shown in photographic enlargement.

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for
VOLuntary **PAR**enthood

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Issued in two forms:

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Volpar Paste a non-greasy paste for the lubrication of occlusive caps and sheaths.

Volpar Gels and Volpar Paste contain the most powerful non-toxic spermicide known; indeed, it has been stated★ that there is no credible record of a pregnancy having occurred even when Volpar Gels (383/2A) have been used alone.

A full size specimen packing will be sent to any physician on request

★ LANCET, DECEMBER 10th, 1938, p. 1381.

THE BRITISH DRUG HOUSES LTD. LONDON N.1

Vol/S/9

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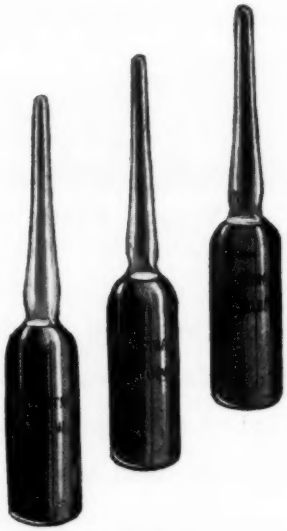
Available for administration by injection or orally.



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Tablets (1 mg.) .. Tube of 25 7/-
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The use of Alum Precipitated Toxoid

A.P.T.

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A.P.T. (Evans) is a powerful antigen and immunity resulting from TWO INJECTIONS approaches 100 per cent.

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For children of 8 years and under.

A.P.T. (Evans) is supplied in:

Ampoules of 0.5 cc.	2/6 each
Set of 2 x 0.5 cc. immunising doses	4/- per box
Rubber-capped bottles of 5 cc.	16/- each
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LIVERPOOL and LONDON

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Colloidal Hydroxide of Aluminium

Rational Antacid Therapy

APART from those cases due to actual organic disease, the treatment of the syndrome of symptoms known as indigestion, generally resolves itself into an attempt to overcome hypersecretion of acid and to soothe the irritated or inflamed gastric mucosa.

That "Alocol" possesses intrinsic qualities which render it particularly valuable as a gastric sedative and antacid is now well established. Its freedom from the constipating effect of bismuth, the laxative action of magnesium salts and the gas-forming properties of sodium bicarbonate are especially noteworthy.

"Alocol" forms with the gastric contents a colloidal jelly which has the power of adsorbing free hydrochloric acid. Its markedly soothing effect on the gastric mucosa promptly relieves pain and discomfort. It does not interfere with the normal process of digestion and is free from the danger of "alkalosis."

Indian. Sarasvati playing the Vina. (12th Century)

M258

Complete chemical history of "Alocol," with convincing clinical reports and supply for trial, sent free to physicians on request.

A. WANDER, LTD., Manufacturing Chemists,
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Works and Laboratories:
KING'S LANGLEY, HERTFORDSHIRE.

For Effective Control of Pain

AMONG the many and diverse analgesics which have been evolved by modern chemical research, acetyl-salicylic acid retains its reputation as one of the safest and most effective. Its tendency to liberate salicylic acid—the irritant properties of which are well known to physicians—has, however, caused many to hesitate to employ it as widely as it deserves. Exhaustive trial in hospital and private practice proves that "Alasil" definitely solves the problem of administering acetyl-salicylic acid in an effective form, being free from the risk of irritating the stomach or bowels or of causing general reactions.

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M268

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available in a single natural food

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*Bemax contains 34% of biologically good protein—as much as best beef, and more than fish or eggs.

Bemax *The Bemax Laboratories are always willing to co-operate with Medical Men interested in Vitamin B research, and to send a clinical sample of Bemax to any Doctor on receipt of his professional card. Vitamins Ltd. (THE BEMAX LABORATORIES) (Dept. L.68), Upper Mall, Hammersmith, London, W.6.*

High Blood Pressure Metabolic Disorders and the Anaemias

constitute a "tripod" of Modern Disease

By dilating the peripheral blood vessels, Dr. Buergi's preparation of chlorophyll ('Phyllosan' tablets) becomes a therapeutic weapon in the treatment of high blood pressure. As it also *augments the force of the heart beat*, the circulation is adequately maintained.

By stimulating the metabolic exchanges, Dr. Buergi's preparation exercises a *revitalizing* effect upon the human organism. The lay expression "*vitality*" has received a technical rechristening in the term "*metabolism*."

To speed up the latter is to renew the former. Bodily sluggishness and mental retardation are nowadays linked up with low basic metabolic rates—as for example, in myxœdema.

Finally, by reason of its chemical affinities to hæmoglobin and its "catalyst" action, chlorophyll is able to *stimulate the blood-forming apparatus*. The indications for the use of 'Phyllosan' tablets in anæmic conditions are soundly rooted in laboratory tests and abundantly confirmed in the clinic.

Members of the Medical Profession are invited to apply for Free Trial supply of 'Phyllosan' tablets

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a Review of Experimental and Clinical Evidence for the use of

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YOUR patients with inoperable carcinoma, with incurable cardiac disease or with any other condition which keeps them recumbent, will inevitably develop distressing gastric symptoms.

'BiSoDoL' will bring relief without increasing the tendency to constipation which is ever present in the bedridden case, since the astringent action of its bismuth content is counteracted by the addition of magnesium carbonate.

Samples of Pulv. BiSoDoL or BiSoDoL Tablets on request.

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A Call for Help

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Veganin Tablets present acetylsalicylic acid, phenacetin and codeine in synergistic combination, whereby the individual action of each constituent is greatly enhanced.

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Veganin Tablets are not advertised to the public.

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Supplied in tubes of 10 *and* 20 *; boxes of* 100, 500 *and* 1,000 *for dispensing.*

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A supply for clinical trial sent on request.

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VEGANIN
BRAND TABLETS
Made in England

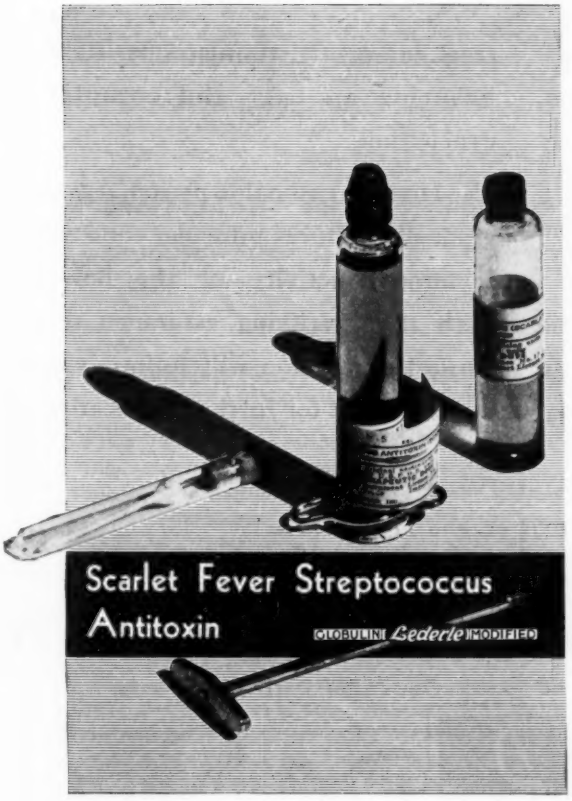
Reducing the risk
of severe serum reactions in

SCARLET FEVER ANTITOXIN THERAPY

TIME WAS WHEN PHYSICIANS confronted with a case of scarlet fever felt themselves in a dilemma. The use of antitoxin meant a serious risk of serum reactions; withholding it left the patient in danger.

Antitoxin was, therefore, frequently given only in severe cases; with the result that many of the milder cases progressed to the severe form of the disease, with a lower expectancy of effectiveness of serum therapy when instituted late.

The advent of "Globulin Modified Scarlet Fever Streptococcus Antitoxin *Lederle*" has changed the old attitude towards antitoxin therapy. This potent antitoxin with its greatly reduced liability to cause reactions is now being widely used regardless of the apparent mildness of the disease. The decrease in the incidence of serious complications alone, aside from the favourable effect on the prognosis, far over-balances the lingering hazards involved in the 2% incidence of severe serum reactions following the use of this antitoxin.



"Scarlet Fever Streptococcus Antitoxin (Globulin Modified) *Lederle*" is available in appropriate packages for prophylaxis and therapy in both vial and syringe packages.

A PRODUCT OF *Lederle*
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(STILBŒSTROL)

RICHTER

Diethyl-Stilbœstrol di-propionate

SYNTHETIC ŒSTROGENIC SUBSTANCE

INDICATED IN:

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SYNTESTRIN faithfully imitates the action of the natural product, and is highly active when administered orally.

ISSUED:

1 c.c. AMPOULES FOR INTRAMUSCULAR INJECTION AND TABLETS ORAL

AMPOULES each containing, in oil solution:

	1 milligramme	*5 milligrammes*
Boxes of 1 Ampoule	1/-	1/6
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TABLETS each containing:

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Bottles of 25	4/3	7/6	22/6
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". . . let us still hold that that alone is true which is proved clinically, and that which is clinically proved needs no further evidence."

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For those patients who complain of vague rheumatic pains, 'Calsiod' (calcium ortho-iodoxybenzoate) is an effective analgesic and palliative. Moreover its prompt use in the acute stages may help to prevent the development of a severe, crippling arthritis.

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FOR SMITH KLINE & FRENCH LABORATORIES

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'Pentnucleotide' should be given in adequate doses.

The present trend is toward larger daily doses of 'Pentnucleotide' in agranulocytosis. In discussing the treatment of such cases, one observer states :—

> "*We now recommend that 40 c.c. of pentnucleotide be given each day intramuscularly.* One cannot judge its effectiveness or lack of it from smaller amounts.*"—*Ann. Int. Med.*, 9:26, 1935.
>
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A mixture of the sodium salts of pentose nucleotides for intramuscular use

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In 100 cases of acute rhinitis in children from 2 months to 12 years of age treated with 'Benzedrine' Brand Inhaler two observers report prompt and adequate shrinkage of the nasal mucosa in 97%.—*Arch. Pediat.*, 54:97, 1937. The vapour form—in addition to its greater effectiveness—overcomes the strenuous objections which children show to liquid inhalants as applied by drops, tampons, or sprays.

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Relatively non-toxic and well tolerated.

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Single ampoules of ·01, ·05, ·1 and ·2 grm. at 1/9, 2/6, 3/3 and 4/6 respectively.

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is a new expectorant and sedative preparation, particularly suited to dry coughs, such as that of chronic bronchitis. Its carefully planned composition includes the juice of ripe black currants, an agent which is well known for its soothing effect on the pharynx, and which gives a distinctive, delicious flavour to the mixture.

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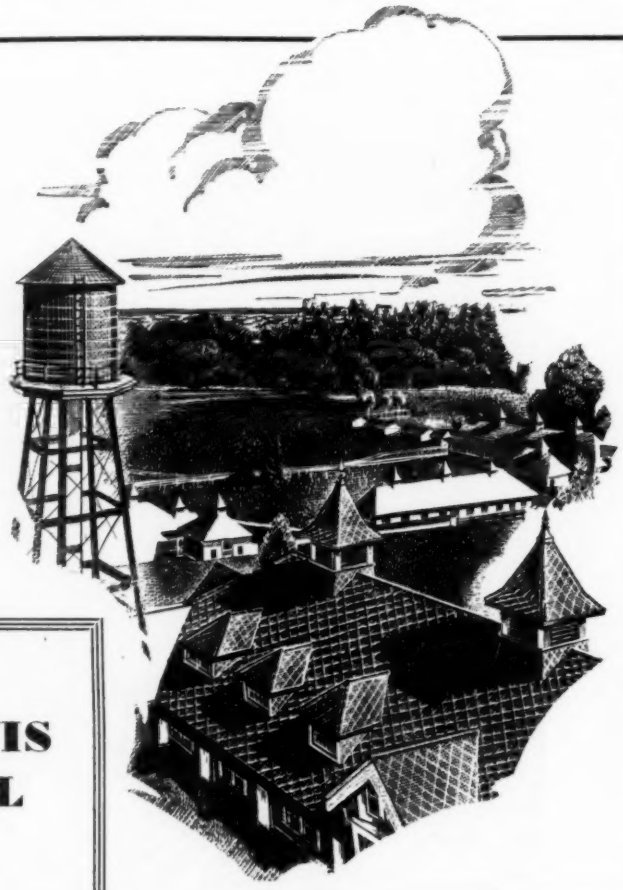

Biological investigation was commenced by Parke, Davis & Co. forty years ago. In 1898 the firm produced the first 2000-unit per c.c. diphtheria antitoxin ever obtained. Biological work developed so extensively that, in 1908, a biological farm was established for the production of serums, antitoxins, etc.

THE PARKE-DAVIS BIOLOGICAL FARM

•

This experimental and biological farm, maintained by Parke, Davis & Co., near Rochester, Michigan, about 30 miles north of Detroit, covers one square mile, and is devoted mainly to the production of serums, antitoxins, and other biological products. More than 40 buildings, arranged in units, house several hundred horses and a large herd of cattle. Several thousand small animals, such as goats, pigeons, rabbits and guinea-pigs, are included among the livestock of this large farm. The large area has made it possible to place the quarantine building fully a mile from the other buildings which are constructed and arranged with special regard to the purposes for which they are used. Each type of work is segregated in a separate unit housed by itself and utilizing its own equipment. Most of the stables have a capacity of 50 horses each, and all are well lighted and ventilated. Special operating rooms are used for injecting and bleeding the horses used for serum production. Other auxiliary buildings which have been designed for individual purposes include the central heating and power plant, the post-mortem room and the dipping building where disinfecting baths are given to all horses and cattle.

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Laboratories : Hounslow, Middlesex. *Inc. U.S.A., Liability Ltd.*

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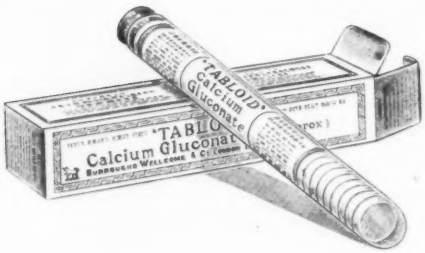
Whenever Calcium is needed to supplement the usual dietary supply, 'TABLOID' Calcium Gluconate products will be found to be the ideal medium for oral administration.



TRADE MARK **'TABLOID'** BRAND

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Ferri et Ammonii Citratis, gr. 3
Salis Effervescentis, q.s.

Tubes of 20 products, **2/1**

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Tubes of 25 products, **1/10**

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(1 product = 1000 International Units Vitamin D)

Bottles of 25 products, **1/10** *100 products*, **5/11**

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CALCIUM MANDELATE COMPOUND

An advance in mandelic acid treatment of urinary infections.

Amber-glass bottles containing 125 grammes (seven days' treatment), **10/10**

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a recognised treatment for burns, scalds and abrasions

TRADE MARK **'TANNAFAX'** BRAND

TANNIC ACID JELLY

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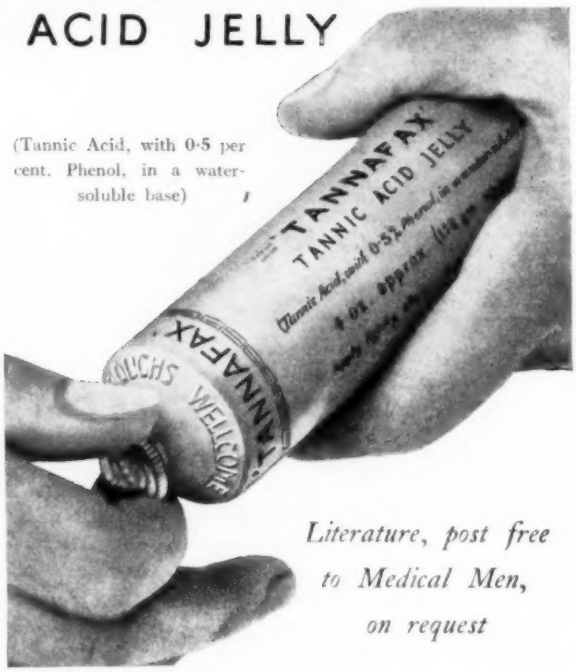

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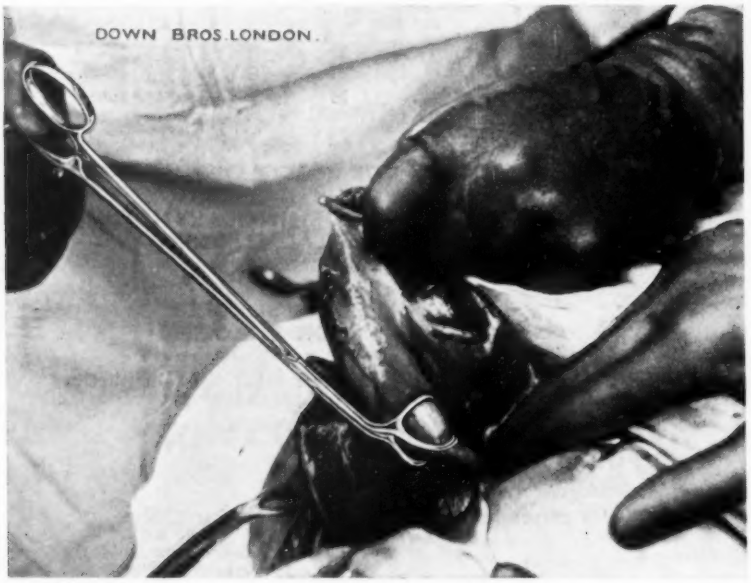

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For prospectus, necessary forms, and further information apply to:—

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A Registered Hospital for the Treatment of

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NORTHAMPTON

FOR THE UPPER AND MIDDLE CLASSES ONLY.

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Two miles from the Main Hospital there are several branch establishments and villas situated in a park and farm of 650 acres. Milk, meat, fruit, and vegetables are supplied to the Hospital from the farm, gardens, and orchards of Moulton Park. Occupational therapy is a feature of this branch, and patients are given every facility for occupying themselves in farming, gardening, and fruit growing.

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For terms and further particulars apply to the Medical Superintendent (TELEPHONE: No. 2356 and 2357 Northampton), who can be seen in London by appointment.

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Telegrams: "Alleviated, London." **Telephones: Rodney 2641 and 2642.**

The above House is for the care and treatment of persons suffering from mental diseases and nervous disorders. Certified voluntary and temporary patients are received. Separate houses for treatment and accommodation of special cases adjoin the Institution. Occupational therapy, physical drill, and other forms of modern treatment. There is a seaside branch, Kearsney Court, near Dover, to which patients may be sent for treatment or on holiday. Motor drives are arranged when required. Tennis courts. Entertainments, dances, and indoor amusements held throughout the year. Terms from £3 3s. per week. Illustrated prospectus and further particulars can be obtained from the MEDICAL SUPERINTENDENT.

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For particulars apply to the Secretary, Pendyffryn Hall, near Penmaenmawr, North Wales. 'Phone 20.

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Also completely detached Villas for Mild Cases, with private suites if desired. Voluntary Patients received. Twenty acres of Grounds, Hard and Grass Tennis Courts, Putting Greens, Bowls, Croquet, Squash Rackets, Recreation Hall with Badminton Court, and all indoor amusements, including Wireless and other Concerts, Occupational Therapy, Calisthenics, and Dancing Classes. X-ray and Actino-therapy, Prolonged Immersion Baths, Operating Theatre, Pathological Laboratory, Dental Surgery, and Ophthalmic Department. Chapel.

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The Hospital is governed by a COMMITTEE, appointed by the TRUSTEES of the Manchester Royal Infirmary.

In addition to the Main Buildings there are separate villas. Extensive grounds. Hard and grass tennis courts, cricket and croquet grounds, and a court for badminton. There are also wireless installations. Golf may be had within easy distance. Occupational Therapy.

VOLUNTARY, TEMPORARY, AND CERTIFIED PATIENTS received.

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HOSPITAL FOR MENTAL DISEASES.

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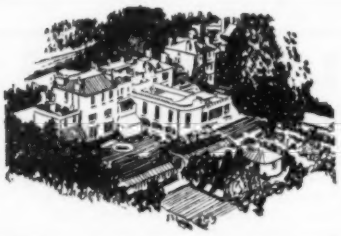

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GENERAL HOSPITAL (112 Beds.)

The Board of Management invites applications from suitably qualified candidates for appointment as HONORARY ANÆSTHETIST for the Gynæcological session at NOON on Tuesdays. The honorarium will be fifty guineas per annum.

Applications should reach the undersigned by Monday, January 23rd, 1939, and short-listed candidates will be invited to meet the Appointments Committee on January 26th, at a time and place to be notified.

R. S. G. HUTCHINGS, Secretary.

ROYAL NAVAL MEDICAL SERVICE

Vacancies exist for MEDICAL OFFICERS in the Royal Navy, and applications are invited for entry in March, 1939.

Candidates below the age of 28 years are preferred, and they must be registered under the Medical Acts. No examination in professional subjects will be held but candidates will be required to attend for interview by a Selection Board.

Selected candidates will be entered for Service for a period of three years, which if desired is usually extended to five years at the discretion of the Admiralty.

Officers who leave the Service at the end of the initial period of three years will be eligible for a gratuity of £400, and those who leave at the end of five years for a gratuity of £1,000.

At the end of five years' Short Service permanent commissions will be given to selected officers who wish to make the Naval Medical Service their permanent career. Officers transferred to the permanent list will receive a gratuity of £1,000 (less Income Tax).

Full opportunities exist for transfer to the permanent list. Marriage Allowance is paid under the same conditions as for other Naval Officers.

Opportunities are available for officers on the permanent list for post-graduate study, to specialise, to take higher examinations and to obtain further qualifications.

Copies of the regulations for entry and conditions of Service, including rates of pay, allowances and retired pay, may be obtained from the Medical Director-General of the Navy, Admiralty, S.W.1, and from the Deans of all Medical Schools.

Applications for entry from intending candidates must be received not later than 28th February, 1939.

Royal College of Physicians of London.

LEVERHULME RESEARCH SCHOLARSHIP.

A Leverhulme Research Scholarship will shortly be awarded by the Royal College of Physicians of London to commence in May, 1939.

The Scholarship will be of the annual value of £500, and will be for one year in the first instance, but renewable from year to year at the discretion of the College for a maximum of three years, though it may be extended over this period in exceptional circumstances.

Scholars must be British subjects of not less than twenty-five years of age and may be of either sex; preference will be given to persons holding a medical qualification.

Scholars must devote themselves to the investigation of some problem of disease in any branch of medicine. The work must have as its base some established institution, preferably in the United Kingdom, in which full facilities for the research are available.

Applications must be sent before Monday, January 23rd, to the Assistant Registrar, Royal College of Physicians, Pall Mall East, S.W.1, from whom application forms, and all details, may be obtained.

Royal College of Physicians.

STREATFEILD RESEARCH SCHOLARSHIP IN MEDICINE AND SURGERY.

In accordance with the Trust founded by Mrs. Eliza Streatfeild for the promotion of Research in Medicine and Surgery, a Committee of the Royal College of Physicians of London and of the Royal College of Surgeons of England will proceed to appoint a STREATFEILD RESEARCH SCHOLAR.

The emolument will probably be £250 per annum, and the tenure of the Scholarship three years, at the discretion of the Committee, the appointment to date from May 1st, 1939.

A form stating the nature of the particulars which each candidate is required to give may be obtained from the Assistant Registrar, Royal College of Physicians, Pall Mall East, S.W.1.

Applications should reach the Assistant Registrar not later than Monday, January 23rd. The envelope should be marked "Streatfeild Scholarship."

Hampstead General Hospital,

Haverstock-hill, N.W.3.

Applications are invited from single Medical Men for the following posts (*a*) HOUSE PHYSICIAN, (*b*) HOUSE SURGEON for six months vacant 1st February. Salary £100 per annum.

Applications on the prescribed form with three testimonials, to be returned to the Secretary by 21st January.

Hampstead General Hospital.

Haverstock-hill, N.W.3.

The Council of Management is prepared to receive applications for the office of RADIOLOGIST to the Hospital.

Candidates are required to be registered Medical Practitioners confined to the specialty of Radiology and should hold a diploma in Medical Radiology and Electricity.

Applications, stating age, qualifications, and experience, with copies of three testimonials, must reach the undersigned by 23rd January, from whom full particulars should be obtained.

By order of the Council.

KENNETH A. F. MILES, Secretary.

University of London.

The Senate invite applications for the UNIVERSITY READERSHIP IN BIOCHEMISTRY tenable at GUY'S HOSPITAL MEDICAL SCHOOL. Salary not less than £500 a year.

Applications (12 copies) must be received, not later than first post on 1st February, 1939, by the Academic Registrar, University of London, Senate House, W.C.1, from whom further particulars should be obtained.

Borough of Ilford.

APPOINTMENT OF ASSISTANT DENTAL SURGEON.

Applications are invited from Registered Dental Surgeons of either sex holding a degree or diploma in Dental Surgery for the above whole-time appointment at a commencing salary of £450 per annum, rising by annual increments of £25 to a maximum of £500 per annum.

The duties of the officer appointed will be mainly connected with the dental inspection of school-children, but he or she will be required also to assist when necessary with the other dental services of the Council.

The appointment is subject to the provisions of the Local Government and Other Officers' Superannuation Act, 1922, and to formal agreement, and the selected applicant will be required to pass a medical examination to the satisfaction of the Medical Officer of Health. The appointment will also be subject to three months' notice on either side.

Forms of application, together with the conditions of appointment and list of duties may be obtained from the undersigned.

Applications on the prescribed form, together with copies of two recent testimonials, must be received by me in an envelope endorsed "Assistant Dental Surgeon" at the Town Hall, Ilford, not later than the 23rd day of January, 1939.

Canvassing, directly or indirectly, will be a disqualification.

CHARLES N. ROBERTS, Town Clerk.

Town Hall, Ilford, 4th January, 1939.

London County Council.

Applications invited from Medical Practitioners of at least one year's standing for position of Temporary Part-time RHEUMATISM REGISTRAR at ST. STEPHEN'S HOSPITAL, 369, Fulham-road, S.W.10. Appointment for one year in first instance. Salary £350.

Application forms obtainable (stamped, addressed foolscap envelope necessary) from Medical Officer of Health, Staff Division 2, County Hall, S.E.1, returnable by 30th January.

Canvassing disqualifies.

London County Council.

Applications invited from registered Medical Practitioners for inclusion in panel for filling vacancies for Temporary Part-time ASSISTANT MEDICAL OFFICERS for School Medical Work. Rate of pay 30s. for session of 2½ hours.

Special experience of medical examination of children necessary. Employment will depend upon needs of work; ultimately candidates engaged will be expected to work three sessions a week during school terms.

Application forms (stamped, addressed foolscap envelope necessary) from Medical Officer of Health (S.D.5), County Hall, Westminster Bridge, S.E.1, returnable by 28th January.

Canvassing disqualifies.

London County Council.

Applications invited from Medical Practitioners of at least one year's standing for the undermentioned positions at QUEEN MARY'S HOSPITAL FOR CHILDREN, Carshalton, Surrey (1284 Beds). Experience in resident appointment in General Hospital for at least six months desirable. Married quarters not available. There are special departments for rheumatic and orthopædic conditions, for congenital malformations and for nutritional diseases.

ASSISTANT MEDICAL OFFICER (CLASS I).—Salary £350–£25–£425, with board, lodging, and washing.

ASSISTANT MEDICAL OFFICER (CLASS II).—Salary £250, with board, lodging, and washing. Appointment for one year only in first instance (renewable for a second year under certain conditions).

Application forms obtainable (stamped, addressed foolscap envelope necessary) from Medical Officer of Health (Staff Division 2), County Hall, S.E.1, returnable by 23rd January.

Canvassing disqualifies.

Metropolitan Borough of Stepney.

APPOINTMENT OF DEPUTY AND ASSISTANT MEDICAL OFFICER OF HEALTH.

The Council of the Metropolitan Borough of Stepney invite applications for the appointment of a Deputy and Assistant Medical Officer of Health. The commencing salary will be at the rate of £750 per annum, rising by six annual increments of £25 to a maximum salary at the rate of £900 per annum, such salary being inclusive.

Candidates must possess the qualifications (including the Diploma of Public Health) prescribed for a Medical Officer of Health by the Public Health (London) Act, 1936, as well as those prescribed in Article 7 of the Local Government (Qualifications of Medical Officers and Health Visitors) Regulations, 1930.

The person to be appointed should have had special experience in Maternity and Child Welfare work, including antenatal work, and experience in Tuberculosis work. Preference will be given to a candidate who has had actual experience in Public Health work, including the diagnosis of infectious diseases. He will be required to devote the whole of his time to the duties of the office and act under the supervision of the Medical Officer of Health. The appointment will, moreover, be subject to the Stepney Borough Council (Superannuation) Acts, 1905 to 1931, and to the Council's bye-laws, including the passing of an examination by the Council's Medical Referee as to constitutional fitness, and will be made in the first instance for a probationary period of six months.

The person appointed will be required to give an undertaking to remain in the Council's service for a period of not less than two years from the date of appointment.

Forms of application may be obtained from the undersigned to whom they must be returned in envelopes endorsed "Appointment of Deputy and Assistant Medical Officer of Health" so as to reach him not later than 12 o'clock noon on Wednesday, the 18th day of January, 1939.

Canvassing members or officers of the Council in any manner whatsoever is strictly prohibited and will disqualify candidates. The Council do not bind themselves to appoint any of the candidates and the appointment will be subject to the obtaining of any necessary consents.

By order,
W. L. McCARTY, Town Clerk.

Municipal Offices, Raine-street, Old Gravel-lane, E.1,
22nd December, 1938.

St. Thomas's Hospital.—Vacancy.—

The appointment of a SURGEON to the EAR, NOSE, AND THROAT DEPARTMENT.

Candidates must possess the Diploma of the F.R.C.S.

Applications, with full details of academic career and copies of testimonials, to be sent to the Clerk to the Governors not later than 21st January.

Dreadnought Hospital,

Greenwich, S.E.10. (Seamen's Hospital Society).—Half-time Non-resident RECEIVING ROOM OFFICER required on the 1st March for seven months until 30th September. Morning or afternoon sessions with alternate Saturdays 9 A.M. to 12 NOON. Previous experience in resident posts essential. The post is suitable for those studying for higher examinations. Salary at the rate of £150 per annum with meals.

Applications, stating age, nationality, and experience of House appointments, accompanied by copies of testimonials, to be sent in on or before 2nd February to the undersigned.

F. A. LYON, Secretary.

9th January, 1939.

Hospital for Tropical Diseases,

Gordon-street, W.C.1 (Seamen's Hospital Society).—Two HOUSE PHYSICIANS (Male) required for six months, one as from 1st February, 1939, and one as from 1st March, 1939. Salary £120 per annum, with board, residence, and laundry.

Applications, stating age and nationality, with copies of three testimonials, to be sent in on or before 23rd January to the undersigned.

D. A. C. PRICE, Secretary,
Hospital for Tropical Diseases,
Gordon-street, W.C.1.

9th January, 1939.

Dreadnought Hospital,

Greenwich, S.E.10.
(Seamen's Hospital Society.)
(257 Beds.)

HOUSE PHYSICIAN required for two months in the first instance as from the 1st February. Salary £110 per annum and a proportion of fees, with board, residence, and laundry.

Candidates must be Male and single.

Applications, with copies of three testimonials, to be sent immediately to the undersigned.

F. A. LYON, Secretary.

The London Homœopathic Hospital

(Incorporated by Royal Charter),
Great Ormond-street, Bloomsbury, W.C.1.
(A General Hospital, 200 Beds.)

RESIDENT APPOINTMENTS.

The Board of Management invite applications for the following appointments:—

HOUSE SURGEON	vacant Feb. 1st.
HOUSE PHYSICIAN	vacant March 1st.
MEDICAL AND CASUALTY OFFICER..	vacant March 1st.

The appointments are three of four Resident Medical posts which occur periodically during the year, and are for a period of six months, with salary at a rate of £100 per annum, and board, apartments, and laundry.

Candidates must be legally qualified and registered. Selected candidates will be required to attend a meeting of the Medical Committee for interview.

Applications, stating age, with copies of testimonials, to be sent to the undersigned.

L. J. KNOWLES, Secretary.

St. Pancras Borough Council.

PUBLIC HEALTH DEPARTMENT.

Applications are invited for a MEDICAL OFFICER to take charge of a Gynæcological Clinic which is to be established in the locality of Kentish Town, N.W.5. Sessions will be held once a week from 6 P.M. to 8 P.M. on an evening to be arranged. The purpose of this clinic is mainly for treating minor gynæcological disorders and for giving advice on contraceptive methods for medical reasons. The fee payable to the Medical Officer will be two guineas per consultation.

Applications are invited from ladies or gentlemen who have had special experience in these branches of medicine. Applicants must give full particulars as to their age, training, qualifications, experience, past and present appointments, and transmit not more than three testimonials (copies only). Applications must be received by the undersigned not later than Monday, 30th January, 1939.

A. POWELL COKE, Town Clerk.

Town Hall, Euston Road, N.W.1.

The Princess Elizabeth of York

HOSPITAL FOR CHILDREN,
Shadwell, London, E.1.
(Formerly East London Hospital for Children.)
(135 Beds.)

A HOUSE PHYSICIAN is required on 1st February, 1939, by the above Hospital.

Candidates are invited to send in their applications, addressed to the Secretary, by first post on Wednesday, 18th January, accompanied by copies of not more than three recent testimonials and evidence of having held a responsible hospital appointment. The appointment is for five months (until 30th June). Salary at the rate of £125 per annum, with board, residence, and laundry.

Candidates must be properly registered in this country. Forms of application and copies of the rules can be obtained from the Secretary-Superintendent.

The Hospital for Sick Children,
Great Ormond-street, London, W.C.1.

The post of CLINICAL PATHOLOGIST will be shortly vacant. Salary commencing at £600 per annum.

The appointment is full-time and non-resident. Facilities will be given for private pathological practice.

The successful candidate will be required to take up his duties preferably on the 1st March, 1939.

Candidates must be registered Medical Practitioners with special experience in bacteriology and clinical pathology.

Applications accompanied by not more than three testimonials given specially for the purpose must be delivered to the undersigned not later than noon on Monday, the 23rd January, 1939.

Candidates must be prepared to appear before the Joint Committee on Wednesday, 25th January, 1939, at 4.45 P.M.

Forms of application and details of the appointment are obtainable from the undersigned.

HERBERT F. RUTHERFORD, Secretary.

January, 1939.

The Hospital for Sick Children,
Great Ormond-street, London, W.C.1.

An OUT-PATIENT SURGICAL ASSISTANT is required.

Duties to commence early in February, 1939. Honorarium £50 per annum.

The appointment is tenable in the first instance for one year, but is renewable.

Duties will include attendance upon members of the Surgical Staff in the Out-patient Department on two mornings a week.

Candidates must possess a legal qualification to practise, and have held a responsible resident appointment at a General Hospital. Preference will be given to those holding the Fellowship of the Royal College of Surgeons of England.

Applications must be received by NOON on Monday, the 23rd January, 1939, and candidates must be prepared to attend for interview by the Joint Committee at 4.45 P.M. on Wednesday, the 1st February, 1939.

Full instructions and forms of application are obtainable from the undersigned.

HERBERT F. RUTHERFORD, Secretary.

December, 1938.

Borough of Ealing.

ASSISTANT MEDICAL OFFICER.

Applications are invited from duly qualified Medical Men (single) with a Public Health qualification for the position of Assistant Medical Officer.

A candidate must have had experience in the treatment of cases of Infectious Diseases at an Isolation Hospital. The duties will include the medical care of patients in the EALING AND BRENTFORD and CHISWICK ISOLATION HOSPITAL, South Ealing, and the Medical Inspection and Treatment of School-children at Schools and Health Centres in the Borough of Ealing.

The person appointed will reside at the Isolation Hospital, where furnished rooms and board will be provided.

He will be required to devote his whole time to the duties and will not be allowed to engage in private practice. The salary will be at the rate of £450 per annum, rising by £25 per annum to a maximum of £550, plus board and residence, as indicated above and valued at £150 per annum.

A deduction of 5 per cent. will be made from the salary in accordance with the provisions of the Local Government and Other Officers' Superannuation Act, 1922, which has been adopted by the Council, and the appointment will be subject to passing the Council's medical examination in connexion therewith. Canvassing will be a disqualification.

Copies of application forms and terms of appointment can be obtained from Dr. Thomas Orr, Medical Officer of Health, Town Hall, Ealing, W.5, to whom application, accompanied by copies of not more than three recent testimonials, must be delivered not later than the 19th January.

R. H. WANKLYN, Town Clerk.

Town Hall, Ealing, W.5.

King George Hospital, Ilford (near London). (207 Beds.)

CASUALTY OFFICER AND SURGICAL REGISTRAR (Male) required for twelve months from 13th February. Salary £150 per annum.

Forms of application may be obtained from the undersigned, to whom they should be returned, not later than 25th January.

G. AUSTIN HEPWORTH, Secretary and Superintendent.

The Queen's Hospital for Children,
Hackney-road, London, E.2.
(160 Beds.)

HOUSE SURGEON required 1st March, 1939.

CASUALTY OFFICER required 1st March, 1939. Some Dermatological work in addition.

Six months' appointments. Salary at the rate of £100 per year, with board, lodging, and laundry in each case.

Applications must be made on forms to be obtained from the undersigned, and be sent in, with copies of not more than three testimonials, on or before 4th February, 1939.

CHARLES H. BESSELL, Secretary.

3rd January, 1939.

Victoria Hospital for Children,
Tite-street, Chelsea, S.W.3. (138 Beds.)

The Committee of Management invite applications for the posts of:—

(a) HOUSE PHYSICIAN.
(b) HOUSE SURGEON.

both vacant 1st February, 1939. The appointments are for six months. Salaries at the rate of £100 per annum, with board, lodging, and washing.

Candidates are expected to attend a Sub-Committee for an interview and should send their applications and copies of three testimonials to the Secretary not later than first post on Wednesday, the 18th January, 1939. Travelling expenses, &c., will not be paid.

D. ST. JOHN BAMFORD, Secretary.

Connaught Hospital, E.17.
For WALTHAMSTOW, WANSTEAD, LEYTON, and CHINGFORD.

Applications are invited for the appointment of HONORARY PHYSICIAN.

Candidates must be Members or Fellows of the Royal College of Physicians, and preferably on the staff of a London Teaching Hospital.

Applications, together with copies of three testimonials, should be received by 20th January, 1939. The Hospital is one of 118 beds, including private wards.

R. HALTON HARRISON, General Secretary.

Battersea General Hospital
(Incorporated.) (85 Beds.)
London, S.W.11.

Applications are invited for the post of RESIDENT HOUSE SURGEON (Male or Female) at a salary of £130 per annum. The appointment is for a period of six months, commencing the 12th March, 1939.

Applications, stating age, nationality, qualifications, and experience, together with two copies of recent testimonials, should be sent to the Secretary at the Hospital not later than the 28th January.

Paddington Green Children's Hospital
(Incorporated), London, W.2.

Applications are invited for the appointment of HONORARY PHYSICIAN to the Skin Department to attend the Clinic on Wednesday afternoons at 2 P.M. Candidates should be Members of the Royal College of Physicians, London.

Applications, stating age and qualifications, accompanied by copies of three testimonials, should reach the undersigned as soon as possible.

JAMES A. HAMLIN, Secretary.

The London Chest Hospital,
Victoria Park, E.2.
(Bus, Tram, and Rail, Cambridge Heath, L. & N.E. Railway.)

A vacancy for a HOUSE PHYSICIAN (Male) will occur on March 1st. Six months' appointment. Salary at the rate of £100 per annum. Board, residence, and laundry provided.

Applications, with copies of three testimonials, should be sent to the undersigned on or before Saturday, February 4th, 1939.

THOMAS BROWN, Secretary.

THE ARMY DENTAL CORPS

Applications are invited from DENTAL SURGEONS for appointment to commissions in The Army Dental Corps.

Candidates, who should not be over twenty-eight years of age, will for the present be selected for commissions without competitive examination, but will be required to present themselves in London for interview and physical examination. They must hold the degree or diploma of a British University or College of Surgeons and be registered under the Dentists' Acts or Medical Acts.

Successful candidates will, in the first instance, be given short service commissions for six years, at the end of which period they will retire with a gratuity of £1000, unless they have been granted permanent commissions. Permanent commissions will be given to officers selected from among those who wish to make the Army their permanent career.

Particulars, including Regulations for admission, pay, and allowances, and forms of application may be obtained on request either in writing or in person to the Director, Army Dental Service, The War Office, London, S.W.1.

Queen Mary's Hospital for the East
END, STRATFORD, E.15.

HONORARY ASSISTANT AURAL SURGEON.

There is a vacancy on the staff of this Hospital for an Honorary Assistant Aural Surgeon (with charge of Out-patients).

Applications, accompanied by copies of testimonials, from male candidates only, who must be Fellows of the Royal College of Surgeons of England, should be sent to the undersigned not later than Saturday, the 28th of January, 1939.

RAPHAEL JACKSON, Major, Secretary.

St. George's Hospital, S.W.1.

Applications are invited for the office of ASSOCIATE NEUROLOGICAL SURGEON at the above Hospital.

Candidates, who have had special experience in neurological surgery and are registered according to the Medical Act, 1858, should send in their applications, accompanied by not less than three testimonials of recent date, to the Secretary, from whom details of the duties of the post may be ascertained, on or before 18th February, 1939.

JAMES M. CHURCHFIELD, Secretary.

4th January, 1939.

Invalid and Crippled Children's

HOSPITAL, Balaam-street, E.13. (36 Beds.)

RESIDENT MEDICAL OFFICER (Male or Female).

Applications are invited for the above appointment which is now vacant. Salary £100, plus board, residence, and laundry.

Anæsthetic experience is desirable.

Applications, addressed to the Secretary, should be sent by January 28th.

Evelina Hospital for Sick Children,

Southwark, S.E.1.

Applications are invited for the post of HOUSE PHYSICIAN (Male) for six months from February 12th (first two months in the Casualty and Out-patient Department). Salary at the rate of £120 per annum, with board and residence.

Applications, with copies of three recent testimonials, should be sent to the undersigned, from whom all particulars can be obtained, not later than first post on January 25th.

W. H. SIDNELL, House Governor.

The Belgrave Hospital for Children,

Clapham-road, S.W.9.

The Committee of Management invite applications for the post of ASSISTANT PHYSICIAN. Candidates must be Graduates in Medicine of an English University and Fellows or Members of the Royal College of Physicians, London. There is an honorarium attached to the post.

Applications, with copies of testimonials, must be delivered to the undersigned by Friday, February 3rd, from whom further information may be obtained.

By Order.

THOMAS CLAPHAM, Secretary.

South London Hospital for Women,

Clapham-common, S.W.4.

Applications are invited for the undermentioned appointment:—

SURGICAL ASSISTANT

to the EAR, NOSE, AND THROAT DEPARTMENT, to attend on Tuesday mornings weekly. Honorarium £25 per annum.

Applications, with copies of testimonials, to be sent to the Secretary at the hospital as soon as possible.

University College Hospital.

The post of REGISTRAR of the Royal Ear Hospital (Ear, Nose, and Throat Department of University College Hospital) will become vacant on the 1st March, 1939. Salary £250 per annum (non-resident) whole-time appointment.

Applications, with copies of three testimonials, should be sent to the Secretary, University College Hospital, W.C.1, before noon on Friday the 27th January, 1939.

County Mental Hospital, Lancaster.

Applications are invited for the post of ASSISTANT MEDICAL OFFICER (Female).

Candidates must be single and under thirty-five years of age. Commencing salary £550 per annum, rising to £600 after one year's satisfactory service, with further increases on promotion, subject to a deduction of 3 per cent. under the Asylums Officers' Superannuation Act, 1909. There are no emoluments.

The selected candidate will be required to live in the Hospital, and she will be provided with board, lodging, &c., for which a charge of £150 a year is made.

The possession of a Diploma in Psychological Medicine will entitle the Officer to an additional £50 per annum.

Applications, giving full particulars, with testimonials (copies only), should be forwarded to the Medical Superintendent on or before the 2nd February, 1939.

Derbyshire Royal Infirmary, Derby.

(General Hospital. 362 Beds.)
Recognised under F.R.C.S. regulations.

Applications are invited for the post of HOUSE SURGEON for the EAR, THROAT, AND NOSE DEPARTMENT (Male, single).

Candidates must be qualified and registered under the Medical Acts.

Salary will be £150 per annum, with apartments, board, &c.

Applications, with copies of testimonials, to be sent to the undersigned.

ARTHUR TAYLOR, Superintendent and Secretary.

9th January, 1939.

Borough of Richmond (Surrey).

ASSISTANT MEDICAL OFFICER OF HEALTH.

Applications are invited from qualified Medical Practitioners under thirty-six years of age for the appointment of full time Assistant Medical Officer of Health at a salary of £500 per annum, rising by annual increments of £25 to £750 per annum.

Applicants must have had experience in public health administration and must hold a diploma in sanitary science, public health, or state medicine.

The person appointed will be required to act under the direction and supervision of the Medical Officer of Health (who is also School Medical Officer) in carrying out the relevant statutory duties and such other duties as may from time to time be assigned to the Medical Officer of Health and School Medical Officer, and he will be responsible for organising the Casualty services in connexion with Air-Raid Precautions.

The appointment, which will be determinable by three months' notice on either side, will be subject to the Local Government and Other Officers' Superannuation Act, 1922, and to the person appointed passing a medical examination.

Applications, made on the form to be obtained at this office, must be received by me not later than the 4th February, 1939.

Canvassing, directly or indirectly, will disqualify.

EDWIN M. NEAVE, Town Clerk.

Town Hall, Richmond, Surrey, 11th January, 1939.

City and County of the City of Exeter.

DEPUTY MEDICAL OFFICER OF HEALTH AND ASSISTANT TUBERCULOSIS OFFICER.

Applications are invited for the appointment of Deputy Medical Officer of Health and Assistant Tuberculosis Officer for the City and County of the City of Exeter at a salary of £550 per annum, rising by four annual increments of £25 each to £650 per annum, together with a car allowance of £50 per annum. The appointment will be subject to deductions in accordance with the provisions of the Local Government and Other Officers' Superannuation Act, 1922, and the person appointed is required to live in a house provided near the City Isolation Hospital rent and rates free, and valued for the purposes of the Superannuation Act at £80 per annum.

The successful candidate will be required to pass a medical examination.

Candidates, whose age should not exceed forty-five years, must be registered Medical Practitioners (Male) of not less than three years' standing and possess the Diploma in Public Health or its equivalent, and must have special experience in the treatment of infectious diseases; experience in modern methods of the diagnosis and treatment of tuberculosis; and general public health experience.

Canvassing, either directly or indirectly, will disqualify.

Applications, endorsed "Deputy Medical Officer of Health," accompanied by copies of three recent testimonials, must be received by me not later than the first post on Friday, the 27th January, 1939.

Application forms and particulars of the appointment may be obtained from the undersigned.

C. J. NEWMAN, Town Clerk.

10, Southernhay West, Exeter, 9th January, 1939.

Rhondda Urban District Council.

WOMAN ASSISTANT MEDICAL OFFICER.

Applications are invited from unmarried or widowed Women Medical Practitioners, not exceeding forty-five years of age, for appointment as Assistant Medical Officer under the direction and supervision of the Council's Medical Officer of Health and School Medical Officer at a salary of £500, rising by annual increments of £25 to £700 per annum, the first annual increment being payable on 1st April following the completion of six calendar months' service under the Council; travelling expenses necessarily incurred in the performance of the duties will also be allowed. Preference will be given to candidates who have had not less than three years' professional experience subsequent to registration and who are experienced in the diseases of children and in maternity and child welfare work.

The appointment, which is designated under the Local Government and Other Officers' Superannuation Act, 1922, will be subject to the successful applicant satisfactorily passing a medical examination and will be terminable by two calendar months' notice on either side. The Officer appointed will be required to reside within the Rhondda Urban District and will not be allowed to engage in private practice.

Applications are to be made on forms obtainable from the Medical Officer of Health, Tydfil House, Llewelyn-street, Pentre, Rhondda, by whom they must be received, endorsed "Assistant Medical Officer," and accompanied by copies of three recent testimonials, not later than the first post on Friday, the 27th January, 1939.

D. J. JONES, Clerk of the Council.

The Council Offices, Pentre, Rhondda,
9th January, 1939.

Burton-on-Trent General Infirmary.

Applications are invited for the position of CASUALTY OFFICER AND HOUSE PHYSICIAN. Salary at the rate of £150 per annum, with board, residence, and laundry.

Applications, giving age, qualifications, and nationality, together with copies of testimonials, to be sent to E. W. Thornley, Secretary.

North Staffordshire Royal Infirmary,
STOKE-ON-TRENT.
(A General Hospital with 400 Beds.)

HONORARY ASSISTANT ORTHOPÆDIC SURGEON.

The General Committee invite applications for the appointment of an Honorary Assistant Orthopædic Surgeon to this Infirmary—the Orthopædic Department of which is being extended.

Applicants must possess the degree of Master of Surgery (obtained by Special Examination) of a British or Irish University, or the Diploma of Fellow of one of the Royal Colleges of Surgeons of England, Edinburgh, or Ireland, and must produce satisfactory evidence of having (after becoming qualified) gained special knowledge of Orthopædics.

The Honorary Assistant Orthopædic Surgeon must devote the whole of his time to the specialty.

He will be permitted to practise in the district—so long as he confines himself to the practice of Orthopædic Surgery and does not engage in general practice.

The successful applicant must reside within the City of Stoke-on-Trent or within a radius of five miles of the N.S. Royal Infirmary, unless he has special permission of the General Committee, and must be communicable by telephone.

Applications, with copies of three testimonials, to be sent to the undersigned on, or before, February 15th, 1939.

Any further information may also be obtained on request.

By order of the General Committee.
GEO. MOTTERSHEAD, Assistant Secretary.

10th January, 1939.

North Staffordshire Royal Infirmary,
STOKE-ON-TRENT. (400 Beds.)

HOUSE SURGEON (CASUALTY).

The Committee invite applications for the above post—half-duties in Casualty. Over 6000 casualties per annum. Salary at the rate of £150 per annum, with board, residence, and laundry. The appointment will be made for six months, renewable.

Eligible for the other resident posts as vacancies arise.

Applications, stating age, and experience, with copies of two recent testimonials, to be sent to the undersigned immediately.

By order,
GEO. MOTTERSHEAD, Assistant Secretary.

10th January, 1939.

City of Stoke-on-Trent.

SENIOR SCHOOL MEDICAL OFFICER AND SENIOR ASSISTANT MEDICAL OFFICER OF HEALTH.

Applications are invited from registered and fully qualified Medical Practitioners for the post of Senior School Medical Officer and Senior Assistant Medical Officer of Health.

The salary scale is £750 to £937 10s. per annum by three annual increments of £50 and one of £37 10s.

Experience in School Medical Service Work is essential. The possession of a Diploma in Public Health would be an advantage.

The successful candidate will be required to devote the whole of his time to the duties of the office, and work under the immediate direction of the Chief School Medical Officer and the administrative control of the Director of Education. The duties will consist of supervision of the School Medical Service, assistance to the Medical Officer of Health as required, routine medical inspection, and school clinic work.

Canvassing will be considered a disqualification. Forms of application may be obtained from the undersigned on receipt of a stamped addressed foolscap envelope, and completed forms should be submitted not later than 31st January, 1939.

The appointment will date from 1st May, 1939, and will be subject to the Local Government Superannuation Act, 1937.

J. F. CARR, Director of Education.

Education Offices, T wn Hall, Hanley, Stoke-on-Trent,
2nd January, 1939.

Southend-on-Sea General Hospital.
(250 Beds. 8 Residents.)

Applications are invited for the post of
SURGICAL REGISTRAR

Duties to commence on or about 6th February. The appointment will be for one year, with eligibility for annual re-election for a further maximum period of two years, and will be resident, with board, &c., provided. Commencing salary £275 per annum.

Applicants should possess the qualification of F.R.C.S. (Eng.), and must have held resident appointment as House Surgeon of a General Hospital.

Application forms, with copies of the regulations and duties of the post, may be obtained from the undersigned and must be returned, with copies of three recent testimonials, not later than 21st January.

P. H. CONSTABLE, Secretary.

Manchester Royal Eye Hospital.

JUNIOR HOUSE SURGEON required. Salary £120 per annum, with residence, board, &c.

Applications, with copies of testimonials, endorsed "House Surgeon" to be addressed to the undermentioned.

H. R. NORTH, General Superintendent and Secretary.

Stirling District Mental Hospital,
LARBERT.

THIRD ASSISTANT MEDICAL OFFICER required (Male), commencing salary £300 per annum, rising by annual increments of £25 to £400, with board, lodging, and laundry. Appointment subject to provisions of Asylums Officers' Superannuation Act.

Apply, stating age and experience, with testimonials, to the Medical Superintendent.

also

FOURTH ASSISTANT MEDICAL OFFICER—Lady—(Clinical Pathologist). Well-equipped laboratory and facilities given for research work. Salary commencing at £250 per annum, rising by annual increments of £25 to £350, with board, lodging, and laundry. Appointment subject to provisions of Asylums Officers' Superannuation Act.

Apply, stating age, with particulars as to experience in laboratory work, and testimonials, to the Medical Superintendent.

Northumberland County Council.

WOOLEY SANATORIUM, near HEXHAM, for the Treatment of Adults Suffering from Tuberculosis. (180 Beds.)

Applications are invited for the appointment of an ASSISTANT MEDICAL OFFICER at the above Sanatorium. Salary £350 per annum, rising by annual increments of £25 to a maximum of £450, with board, lodgings, and laundry.

The salary will be subject to a percentage deduction in accordance with the provisions of the Local Government and Other Officers' Superannuation Act, for which purpose the selected candidate must undergo a medical examination.

Applicants should be unmarried.

The appointment may be terminated by three months' notice on either side.

Applications, containing essential particulars, should be addressed to the undersigned, together with copies of three recent testimonials, as soon as possible.

WILLIAM F. J. WHITLEY, County Medical Officer.

County Hall, Newcastle-upon-Tyne, 1.

Lancashire County Council,

BIDDULPH GRANGE ORTHOPÆDIC HOSPITAL.

Applications are invited from duly qualified and Registered Medical Practitioners (unmarried) for the post of JUNIOR HOUSE SURGEON at the above Hospital, which contains 88 Beds.

Salary is at the rate of £200 per annum, together with board, residence, and laundry.

Preference will be given to candidates who have held resident hospital appointments and who are competent anæsthetists. The appointment will be for a period of six months in the first instance, and for a further six months at the option of the County Council, but will not be renewable after that time.

Applications, with copies of two recent testimonials, should be sent not later than the 27th January, 1939, to Dr. F. Hall, School Medical and Child Welfare Department, County Offices, Preston.

Duties to commence the 1st March, 1939.

GEORGE ETHERTON, Clerk of the County Council.

County Offices, Preston, 9th January, 1939.

Royal Manchester Children's Hospital,
PENDLEBURY, Near MANCHESTER.
(232 Beds.)

RESIDENT SURGICAL OFFICER.

Applications are invited for the post of Resident Surgical Officer. Salary £150 per annum. The appointment is for a period of six months commencing March 1st.

Candidates must be unmarried and duly registered. Previous hospital experience essential. Candidates holding, or working for, a higher surgical qualification preferred.

Applications, stating age and accompanied by copies of not more than three recent testimonials, to be sent to the undersigned not later than Thursday, 2nd February. Canvassing, directly or indirectly, may disqualify.

By order,
H. HEARDMAN, Secretary.

Keighley and District Victoria Hospital.
YORKSHIRE, WEST RIDING.
(150 Beds.) (Two Residents.)

APPOINTMENT OF SECOND RESIDENT MEDICAL OFFICER.

Vacant 1st March, 1939.

Applications are invited from Registered Medical Practitioners (Female) for the above appointment. Proof of registration to be furnished before appointment.

Salary £120 per annum, together with full residential emoluments.

Term, six months, renewable.

Applications, with particulars of age, experience, nationality, together with copies of two recent testimonials, to be sent to the undersigned not later than Saturday, 28th January, 1939.

J. YOUNG, Secretary-Superintendent.

Northamptonshire County Council.

APPOINTMENT OF ASSISTANT COUNTY MEDICAL OFFICER AND DISTRICT MEDICAL OFFICER OF HEALTH.

Applications are invited from registered Medical Practitioners holding a diploma in public health or similar qualifications for the appointment of Assistant County Medical Officer of Health under the above County Council and District Medical Officer for the Borough of Higham Ferrers and the Urban Districts of Irthlingborough and Rushden. The officer appointed will also ultimately be required to take over the appointments in other adjacent districts.

The inclusive salary will be at the rate of £800 per annum, with a travelling allowance on the scale from time to time approved by the County Council. Office accommodation and clerical assistance will be provided. The present allocation of the annual salary is—County Council £590, Higham Ferrers Borough Council, £30, Irthlingborough Urban District Council £50, and Rushden Urban District Council £130.

The appointments under the County Council and the Irthlingborough and Rushden Urban District Councils are designated posts for purposes of the Local Government and Other Officers' Superannuation Act, 1922, and the salary attaching to those appointments will be subject to a deduction of five per cent. per annum for superannuation, in accordance with the provisions of that Act.

The officer appointed will act under the County Medical Officer of Health as Assistant School Medical Officer and Assistant Medical Officer for Maternity and Child Welfare and perform such other duties as may be assigned to him by the County Council and County Medical Officer of Health.

The appointment will be subject to the Sanitary Officers (Outside London) Regulations, 1935, and the Local Government Act, 1933, and the officer appointed will be required to perform in the districts of the Local Sanitary Authorities referred to all the duties imposed on a District Medical Officer of Health by the relevant Acts, Orders, and Regulations.

The officer will be required to devote his whole time to the duties of the office and to reside in a place approved by the authorities.

The candidate appointed will be required to pass a medical examination.

The appointment will be determinable (subject to the relevant provisions of the Local Government Act, 1933) upon three months' notice on either side.

Applications, stating age, qualifications, and experience, together with copies of not more than three recent testimonials, should reach the undersigned not later than the 23rd January, 1939.

Canvassing will disqualify.

H. S. MARTIN, Clerk of the County Council.

County Hall, Northampton, 2nd January, 1939.

BARBADOS GENERAL HOSPITAL

Wanted, a duly qualified Medical Practitioner, Male, Single preferred, as HOUSE SURGEON AND ANÆSTHETIST (one of four House Surgeons) of The Barbados General Hospital (273 Beds). Experience in modern methods of Anæsthesia essential.

Salary £450 per annum, with quarters furnished for a single man, free water, lighting allowance, no local rates, Income Tax not exceeding 6d. in the pound.

The appointment is for three years subject to three months' notice on either side to terminate the engagement.

First-class passage out to Barbados direct will be paid by the Hospital Board for a full term of service, a proportionate part of which is to be refunded in case of service for a shorter period. First-class return passage to London direct from Barbados will be granted on satisfactory termination of full period of service.

Applications must be accompanied by a photograph, a recent medical certificate of physical fitness and recent professional and personal testimonials stating age and date of graduation, a recent certificate of proficiency in Administering modern Anæsthetics as Resident Anæsthetist of a Hospital of not less than 200 Beds, or of a Post-Graduate Course in Modern Anæsthesia at a recognised Medical School.

Canadian graduates must hold qualifications registrable in England.

Candidates holding a United States degree must be registered in the State of New York.

Applications will be closed on 28th February, 1939, and should be addressed to the Medical Superintendent, General Hospital, Barbados, B.W.I.

By Order,
J. WARD, Secretary.

County Borough of Preston.

SHAROE GREEN HOSPITAL. (250 Beds.)

JUNIOR ASSISTANT RESIDENT MEDICAL OFFICER (Female).

Applications are invited from fully qualified and registered Practitioners for the above appointment. Salary at the rate of £100 per annum, with full board and residence. The appointment will be for a period of six months and can be renewed for a period not exceeding six months.

Applications, stating age, qualifications, and experience, together with copies of three recent testimonials, should reach the Medical Superintendent not later than first post on the 21st January, 1939.

The Corporation of the City of Glasgow.

POLICE DEPARTMENT.

APPOINTMENT OF WHOLE-TIME CASUALTY SURGEONS.

The Corporation of the City of Glasgow propose to appoint three whole-time Casualty Surgeons to the Glasgow Police Force, and applications are invited from Members of the Medical Profession having the necessary qualifications for these appointments.

Candidates, unless they are at present in the service of the Corporation, must not be less than thirty nor more than forty-five years of age. The salary fixed for the positions is £600 per annum, rising by biennial increments of £30 to £750 per annum, for each of the three appointments.

The appointments will be made subject to the conditions and duties laid down by the Corporation, a copy of which together with the necessary Form of Application may be obtained at the Office of the Subscriber, Room 44, City Chambers, Glasgow. The candidates recommended for the appointment must be physically fit and undergo a medical examination for admission to the Corporation Superannuation Scheme in respect of which a deduction will be made from their salaries at the rate of 5 per cent. per annum.

Applications on the prescribed form must be lodged with the undersigned not later than Tuesday, 31st January, 1939, endorsed on the outside "Casualty Surgeons."

J. L. MACKENZIE, Town Clerk.

City Chambers, Glasgow, C.2, 28th December, 1938.

County Borough of Burnley.

MUNICIPAL GENERAL HOSPITAL

JUNIOR RESIDENT MEDICAL OFFICER (Male).

Applications are invited from fully qualified Medical Men for the position of Junior Resident Medical Officer at the Municipal General Hospital, Burnley, to take up duties on or about 1st February, 1939. The appointment will be for a period of twelve months.

Salary at the rate of £150 per annum for the first six months, £200 per annum for the second six months, plus full residential emoluments.

Applications, together with copies of testimonials, should be forwarded as early as possible to the Medical Officer of Health, St. James'-street, Burnley.

HARRY PLOWMAN, Town Clerk.

Town Hall, Burnley, 29th December, 1938.

Kent Education Committee.

SCHOOL MEDICAL SERVICE

DENTAL SURGEON.

Applications are invited from qualified candidates, not more than forty years of age, for the post of Dental Surgeon.

The successful candidate will be required to devote his whole time to the duties (which include the treatment of school children, children under school age and expectant and nursing mothers), and will work under the supervision of the School Medical Officer.

Salary £500 a year increasing by annual increments of £10 to £550 a year, together with travelling and subsistence allowances.

The appointment is subject to the provisions of the Local Government and Other Officers' Superannuation Act, 1922, and is terminable by three months' notice on either side. The successful applicant will be required to pass a medical examination as to physical fitness.

Applications, stating age and full qualifications, accompanied by copies of three recent testimonials, must be forwarded to the undersigned not later than 23rd January, 1939.

No form of application will be issued. Canvassing is a disqualification.

CONSTANT PONDER, M.D., School Medical Officer.

Sessions House, Maidstone, 2nd January, 1939.

Bristol Royal Infirmary.

Applications are invited for the following Resident Medical appointments for the six months commencing March 1st, 1939.

Three HOUSE PHYSICIANS (one of whom also acts as House Physician to the CANCER DEPARTMENT).
Four HOUSE SURGEONS and one ASSISTANT HOUSE SURGEON.
One HOUSE SURGEON to the CASUALTY DEPARTMENT.
One HOUSE SURGEON to the EAR, NOSE, AND THROAT DEPARTMENT.
Two HOUSE SURGEONS to the FRACTURE DEPARTMENT.
One SENIOR OBSTETRIC HOUSE SURGEON.
One JUNIOR OBSTETRIC HOUSE SURGEON.

Salaries at the rate of £80 per annum, except in the case of the Senior Obstetric House Surgeon who will receive a salary at the rate of £100 per annum and the Senior Casualty House Surgeon who will receive a salary at the rate of £150 per annum.

Candidates, who must be duly qualified, to send in their application on forms to be obtained from the undersigned which must be returned on or before January 20th, 1939, together with copies of not more than three testimonials.

The elected candidates must become members of the Medical Defence Union before taking up their appointments.

ELLIS C. SMITH, F.C.I.S., Secretary and House Governor.

Dewsbury and District General INFIRMARY, DEWSBURY. (100 Beds.)

The Senior Post is recognised by the Royal College of Surgeons (England).

Applications are invited for the post of SENIOR HOUSE SURGEON (Male), vacant in February. Salary £200 per annum, with board, residence, and laundry.

Also for the post of SECOND HOUSE SURGEON (Male). Salary £150 per annum, with emoluments. The duties are principally those of a House Physician and Casualty Officer.

The infirmary is a modern Voluntary Hospital and has the usual Special Departments, with Visiting Consulting Specialists in attendance.

Applications, *stating for which post*, age, and hospital experience, together with copies of recent testimonials, to be sent as immediately as possible to my office.

FRED SMITH, Secretary-Superintendent.

The Royal Eye and Ear Hospital, BRADFORD. (94 Beds.)

Wanted, HOUSE SURGEON (Male). Salary £180 with board, residence, and laundry.

Applications, stating qualifications, age, &c., with copies of recent testimonials, to be forwarded to the undersigned on, or before, January 18th.

F. BRIGGS, Secretary-Superintendent.

The Lawn, Lincoln.

ASSISTANT MEDICAL OFFICER required.

Medical Woman, with Mental Hospital experience or working for D.P.M. preferred.

Salary £300 per annum, with emoluments. Apply, Medical Superintendent, The Lawn, Lincoln.

Grimsby and District Hospital. (189 Beds.)

Applications are invited for the post of HOUSE PHYSICIAN. Remuneration £150 per annum, with board, residence, &c. Candidates must be fully qualified and registered, and previous Hospital appointment experience is desirable. Duties to commence 1st February, 1939. Appointment for six months, option of renewal.

Applications, stating age, qualifications, experience, and not more than three testimonials, to be forwarded to the undersigned at once.

H. B. COATES, Secretary-Superintendent.

3rd January, 1939.

Grimsby and District Hospital. (189 Beds.)

Applications are invited for the post of JUNIOR HOUSE SURGEON AND CASUALTY OFFICER (Male). Salary £150 per annum, with board, residence. Appointment for six months, option of renewal. Candidates must be registered under the Medical Acts.

Applications, with copies of three testimonials, to the undersigned at once. Duties to commence 1st February, 1939.

H. B. COATES, Secretary-Superintendent.

Grimsby and District Hospital. (189 Beds.)

Applications are invited for the post of RESIDENT SURGICAL OFFICER (Male). Salary £225 per annum, with board, residence. Appointment for six months, option of renewal. Candidates must be registered under the Medical Acts and previous Hospital experience is desirable.

Applications, with copies of three testimonials, to the undersigned at once.

H. B. COATES, Secretary-Superintendent.

3rd January, 1939.

Huddersfield Royal Infirmary. (321 Beds.)

Male HOUSE PHYSICIAN required to commence duty on 31st March, 1939.

Salary £150 per annum, with board, residence, and laundry. Appointment for six months, subject to renewal at the discretion of the Board of Management.

Applications, with copies of three recent testimonials, to be addressed to the undersigned immediately.

H. J. JOHNSON, General Superintendent and Secretary.

Huddersfield Royal Infirmary. (321 Beds.)

Male HOUSE SURGEON required to be attached to the Abnormal Maternity Department. Duties, which include the administration of anæsthetics, to commence on 1st February, 1939. Salary will be at the rate of £150 per annum, with board, residence, and laundry.

Appointment for six months, subject to renewal for a similar period.

Applications, with copies of three recent testimonials, to be addressed to the undersigned immediately.

H. J. JOHNSON, General Superintendent and Secretary.

Huddersfield Royal Infirmary. (321 Beds.)

Male CASUALTY OFFICER required to commence duty on 20th February, 1939.

Salary £200 per annum, with board, residence, and laundry. Appointment for six months. Prospect according to qualifications, experience, and satisfactory service.

The hospital is officially recognised for the surgical practice required of non-members before admission to the Final Fellowship Examination of the Royal College of Surgeons of England.

The post of Casualty Officer is next in seniority to that of Resident Surgical Officer.

Applications, with copies of three recent testimonials, to be addressed to the undersigned immediately.

H. J. JOHNSON, General Superintendent and Secretary.

Harrogate Royal Bath Hospital. (A National Hospital for Rheumatic and Allied Diseases.) (150 Beds.)

Applications are invited for the post of RESIDENT MEDICAL OFFICER (Male) to commence duties beginning of February, 1939.

Salary £200 per annum, with board, residence and laundry. Exceptional facilities for research or preparation of thesis.

Applications, stating qualifications, age, &c., with copies of recent testimonials, to be forwarded to the undersigned.

E. P. L. DIXON, M.A., Secretary.

County Borough of Bournemouth.

ASSISTANT MEDICAL OFFICER OF HEALTH AND ASSISTANT SCHOOL MEDICAL OFFICER. (Male.)

Applications for the above are invited from duly registered Medical Practitioners who should be single and under forty years of age and hold a diploma of Public Health.

The person appointed may be required to undertake any public health work, but special experience of infectious diseases is desirable.

Board, lodging, and laundry will be provided at the hospital for infectious diseases, and for these a deduction of £100 per annum will be made from the salary. This will be from £500–£700 with annual increments of £25 and deductions for superannuation, but exception will be made in the favour of an applicant who is already receiving a salary between £500 and £600. There will be a travelling allowance of £30 per annum.

Application forms can be obtained from the Medical Officer of Health, Town Hall, Bournemouth, to whom they must be returned, with copies of three recent testimonials, not later than the first post of January 24th, 1939.

Canvassing of any kind will be a disqualification.

HERBERT ASHLING, Town Clerk.

Town Hall, Bournemouth, 30th December, 1938.

Bristol General Hospital

The Committee invites applications for the following appointments which become vacant on March 1st, 1939.

Two HOUSE PHYSICIANS, Three HOUSE SURGEONS, a RESIDENT OBSTETRIC OFFICER, a HOUSE SURGEON to the SPECIAL DEPARTMENTS, and a CASUALTY HOUSE SURGEON.

The appointments will be made for six months with salaries at the rate of £80 per annum and at the rate of £100 per annum for the Casualty House Surgeon, and in the event of a second appointment being held, at the rate of £100 per annum in each case with board, residence, &c., provided in the Hospital.

Candidates must be registered under the Medical Acts and produce testimonials of good personal character and ability, and must have recent experience in the administration of anæsthetics.

Forms of application, &c., to be obtained from the Secretary, must be completed and returned with copies of testimonials, addressed to the undersigned, on or before Saturday, January 28th, 1939, from whom further particulars may be obtained.

THOMAS W. GREGG, F.C.C.S., Secretary.

Horton General Hospital, Banbury, OXON. (60 Beds.)

RESIDENT MEDICAL OFFICER (Female) wanted for six months from the middle of February.

Salary at the rate of £150 per annum, with board, residence, and laundry.

Applications, stating age, qualifications, and the experience in the administration of Anæsthetics, with copies of two recent testimonials, to be sent to the undersigned not later than 17th January, 1939.

RICHARD H. PRESCOTT, Secretary and House Governor.

St. Anne's Home, Altrincham, Cheshire.

Wanted, a RESIDENT SURGICAL OFFICER (Male) for the above Hospital (50 Beds). Must be registered. Salary £200 per annum, with board, apartments, &c. This Hospital is the Ear, Nose, and Throat Department of the Manchester Hospital for Consumption and Diseases of the Ear, Nose, Throat, and Chest, and duties include attendance on two mornings a week at the Out-patient Department, Manchester.

Applications, with copies of testimonials, to be sent not later than January 21st to W. HUNT, Secretary, 45, Hardman-street, Deansgate, Manchester, 3.

Middlesex County Council.

REDHILL COUNTY HOSPITAL.
Edgware, Middlesex.

RESIDENT CASUALTY MEDICAL OFFICER required. Must be registered Medical Practitioner, with considerable all-round experience and as house physician and house surgeon in general hospital.

Whole-time duties (under supervision of Medical Superintendent) include dealing with casualties and admissions to hospital.

Appointment, subject to medical examination, is primarily for six months but may be extended further six months.

Salary £350 per annum, with board, lodging, and laundry.

Applications, stating date of birth, qualifications and experience, with copies of not more than three recent testimonials, must reach the undersigned by 28th January, 1939. Envelopes must be endorsed "Casualty Medical Officer—B.3." No application forms. Canvassing, directly or indirectly, disqualifies.

C. W. RADCLIFFE, Clerk of the County Council.

Guildhall, Westminster, S.W.1.

NEW ZEALAND

UNIVERSITY OF OTAGO.

Applications are invited for the position of LECTURER IN BIOCHEMISTRY, Physiology Department, Otago University Medical School. Medical qualification desirable. Knowledge of Animal Physiology essential.

Salary £650 per annum (New Zealand currency). £70 sterling allowed towards cost of travelling expenses to Dunedin, New Zealand.

For further particulars apply to the High Commissioner for New Zealand, 415, Strand, London, W.C.2, by whom completed applications will be received up to 22nd March, 1939.

NEW ZEALAND

UNIVERSITY OF OTAGO MEDICAL SCHOOL.

Applications are invited for the position of PROFESSOR OF MEDICINE. Salary £2000 per annum. Further particulars are obtainable from the High Commissioner for New Zealand, 415, Strand, London, W.C.2, with whom applications close on March 22nd, 1939.

University of Birmingham.

FACULTY OF MEDICINE.

LECTURER IN BACTERIOLOGY.

Applications are invited for the post of Third Lecturer in Bacteriology and Assistant Bacteriologist in the Public Health Laboratory.

Commencing stipend at the rate of £350–£400 per annum.

Applications from Graduates of British Universities, who have had no previous laboratory or teaching experience, but who are desirous of taking up Bacteriology as a career, would be considered.

Three copies of applications, with three copies of not more then three testimonials, should be sent to the undersigned, from whom further particulars may be obtained.

The last day for receiving applications is January 31.

C. G. BURTON, Secretary.

The University, Edmund-street, Birmingham, 3,
January, 1939.

Surrey County Council.

PUBLIC HEALTH DEPARTMENT.

DORKING COUNTY HOSPITAL. (200 Beds.)

RESIDENT ASSISTANT MEDICAL OFFICER (Female).

Applications are invited for the post of Resident Assistant Medical Officer at the Dorking County Hospital, Horsham-road, Dorking.

Applicants should preferably have had previous experience as House Surgeon or House Physician.

The appointment is for a period of six months, renewable for a further period of six months, and the salary is at the rate of £250 per annum, together with full residential emoluments valued at £125 per annum.

Applications, stating age, qualifications, and experience, and enclosing copies of not more than three recent testimonials, should be sent to the County Medical Officer, County Hall, Kingston-on-Thames, so as to be received not later than the 25th January, 1939.

DUDLEY AUKLAND, Clerk of the Council.

County Hall, Kingston-upon-Thames, 13th January, 1939.

Liverpool Heart Hospital.

34, Oxford-street, Liverpool, 7.

HOUSE PHYSICIAN required (Male or Female) for six months from 21st March. Facilities for research and for M.D. thesis. Salary at rate of £100 per annum, with board, residence, and laundry.

Applications to Secretary.

National Sanatorium, Benenden, Kent.

The Council invite applications for the post of HOUSE PHYSICIAN.

Salary at the rate of £150 per annum, with board, residence, and laundry.

The successful candidate will be appointed for a period of six months commencing 1st March, 1939.

Candidates must be duly qualified and registered. Applications stating age, nationality, qualifications, and experience together with copies of three recent testimonials must be sent to the undersigned not later than 1st February, 1939.

C. C. LAWRENCE, Hon. Secretary,
National Sanatorium, Benenden, Cranbrook, Kent.

Envelopes should be marked "Personal."

County Borough of Barrow-in-Furness.

ASSISTANT MEDICAL OFFICER OF HEALTH AND ASSISTANT SCHOOL MEDICAL OFFICER (Male).

Applications are invited for the above appointment at an inclusive salary at the rate of £500 per annum, rising, subject to satisfactory service, by annual increments of £25 to £700 per annum.

The Committee may at their discretion take into account previous experience as an Assistant Medical Officer in determining the amount of the commencing salary.

Candidates must be fully qualified and registered Medical Practitioners and possess the Diploma in Public Health.

The appointment will be subject to the provisions of the Local Government and Other Officers' Superannuation Act, 1922, and the person appointed will be required to pass a medical examination.

Forms of application and particulars of the duties may be obtained on application to the Medical Officer of Health, Town Hall, Barrow-in-Furness, and completed applications, endorsed "Assistant Medical Officer of Health," accompanied by copies of not more than three recent testimonials, must be returned to my office not later than first post on Wednesday, the 25th instant.

Canvassing, either directly or indirectly, will disqualify.

W. LAWRENCE ALLEN, Town Clerk.

Town Hall, Barrow-in-Furness, 10th January, 1939.

County Borough of West Bromwich.

HALLAM HOSPITAL. (472 Beds.)

ASSISTANT MEDICAL OFFICER.

Applications are invited from duly qualified (unmarried) Male registered Practitioners for the above appointment.

Salary £200, together with usual resident emoluments. The appointment is for six months and renewable, subject to satisfactory service, for a further six months, but can be terminated by either party giving six weeks' notice.

All fees received by the person appointed will be payable into the funds of the Council.

Applications, stating age, experience, and qualifications, together with copies of three recent testimonials, must be forwarded to the Medical Officer of Health, 2, Lodge-road, West Bromwich, so as to arrive not later than by first post on Tuesday, January 24th, 1939.

G. F. DARLOW, Town Clerk.

Town Hall, West Bromwich, 10th January, 1939.

Royal Victoria Infirmary,

NEWCASTLE-UPON-TYNE.
(835 Beds.)

WHOLE-TIME JUNIOR SURGICAL REGISTRAR.

Applications are invited for the post of whole-time Junior Surgical Registrar.

These appointments are intended for Graduates who desire to gain surgical experience and who have already held a post as House Surgeon. The post offers opportunity for post-graduate study.

The appointment, which will commence on 6th February, 1939, will in no case extend beyond three years, and will be for one year in the first instance, renewable for two further periods.

The rate of remuneration is £150 per annum.

Applications, with copies of not more than three recent testimonials, must be received on or before Wednesday, 25th January, 1939, by the undersigned, from whom further particulars may be obtained.

S. DUNSTAN, House Governor and Secretary.

7th January, 1939.

Manchester Northern Hospital

(General Hospital. 113 Beds.),
CHEETHAM HILL ROAD, MANCHESTER, 8.

Applications are invited for the posts of RESIDENT HOUSE PHYSICIAN and RESIDENT HOUSE SURGEON. Salary £100 per annum, with board and residence.

The appointments are for six months from mid-February, 1939 (successful candidates are eligible for reappointment for a further six months).

Applications, stating age, qualifications, and nationality, with copies of not less than three recent testimonials, should be sent to Mr. JAMES C. DANIELS, Secretary, 38, Barton Arcade, Manchester, 3, by 21st January.

County Borough of Halifax.

ASSISTANT MEDICAL OFFICER OF HEALTH—MATERNITY AND CHILD WELFARE (Female).

Applications are invited from duly qualified and registered Medical Practitioners for the post of whole-time Assistant Medical Officer of Health—Maternity and Child Welfare (Female), experienced in Ante-natal work, Midwifery and Children's Diseases, to hold consultations at the Ante-natal and Maternity and Child Welfare Centres in the County Borough of Halifax and to perform such other duties as appertain to the office.

The person appointed will be a member of the Staff of the Medical Officer of Health and will work under his control and direction. She will be required to devote her whole time to the duties of her office and not to engage in private practice of any description.

The salary offered is £500 per annum, rising by annual increments of £25 to £700 and the post will be subject to the provisions of the Local Government Superannuation Act, 1937.

Applications must be made on the prescribed form, to be obtained from the undersigned, and delivered, accompanied by copies of three recent testimonials, not later than first post on Monday, 23rd January, 1939, endorsed "Assistant M.O.H.—Maternity and Child Welfare" and addressed to the Town Clerk, Town Hall, Halifax.

Canvassing, either directly or indirectly, will be a disqualification.

PERCY SAUNDERS, Town Clerk.

Town Hall, Halifax, 3rd January, 1939.

City of Birmingham.

PUBLIC HEALTH AND MATERNITY AND CHILD WELFARE DEPARTMENT.

LITTLE BROMWICH HOSPITAL FOR INFECTIOUS DISEASES.

JUNIOR RESIDENT MEDICAL OFFICER.

Applications are invited for the post of Junior Resident Medical Officer (Male). Candidates must be unmarried and must have held previous resident posts in general or children's hospitals.

Salary will be at the rate of £300 per annum, together with board, &c., valued at £150 per annum. The appointment is limited to twelve months.

The officer appointed will be required to take up duty on March 1st.

It is not feasible to attend classes for the D.P.H. in conjunction with this appointment.

Forms of application may be obtained from the Medical Superintendent, Dr. J. McGarrity, Little Bromwich Hospital, Birmingham, 9, and should be returned to him on, or before, January 21st, 1939.

F. H. C. WILTSHIRE, Town Clerk.

The Council House, Birmingham.

West Kent General Hospital

(Incorporated),
MAIDSTONE. (135 Beds.)

Applications are invited for the post of HOUSE PHYSICIAN, who must be a Male of British nationality and unmarried.

He will have charge of thirty Medical Beds and sixteen Maternity Beds. Experience in midwifery is essential.

Salary at the rate of £175 per annum, with board, apartments, and laundry.

Candidates must possess registered qualifications.

Applications, stating qualifications and experience, together with copies of testimonials, should be sent to the undersigned on or before 21st January, 1939. The successful candidate will be required to take up residence on 3rd February, 1939.

EDWARD J. GREGG, House Governor and Secretary.

Derbyshire Royal Infirmary, Derby.

(General Hospital. 362 Beds.)
Recognised under F.R.C.S. regulations.

Applications are invited for the post of HOUSE SURGEON for General Surgery (Male, single).

Candidates must be qualified and registered under the Medical Acts.

Salary will be £150 per annum, with apartments, board, &c.

Applications, with copies of testimonials, to be sent to the undersigned.

ARTHUR TAYLOR, Superintendent and Secretary.

2nd January, 1939.

Rochdale Infirmary and Dispensary.

(110 Beds.)

The Board of Management invite applications for the appointment of SENIOR HOUSE SURGEON.

The salary attached to the appointment is at the rate of £250 per annum, including board, residence, and laundry.

Applications, stating age, nationality, &c., together with copies of three recent testimonials, to be sent to the Secretary endorsed "House Surgeon." Conditions of the appointment may be had on application to the Secretary.

W. WYNNE, Secretary.

Infirmary Office, Rochdale, Lancs.

Middlesbrough Education Committee.

APPOINTMENT OF WOMAN ASSISTANT SCHOOL MEDICAL OFFICER.

Applications are invited from duly qualified women for a position as ASSISTANT SCHOOL MEDICAL OFFICER in connexion with the medical inspection and treatment of school-children, and such other duties as may be required by the Education Committee. The person appointed will be generally responsible to the School Medical Officer.

Commencing salary £500 per annum (provided the successful candidate has had not less than three years' post-graduate experience) rising by annual increments of £25 to £700 per annum. The Committee will take into account previous experience as an Assistant School Medical Officer in determining the amount of the commencing salary. The successful candidate will be required to devote her whole time to the duties of the office. The appointment will be subject to the provisions of the Local Government and Other Officers' Superannuation Act, 1922, and the successful candidate will be required to pass satisfactorily a medical examination. The appointment will be terminable by two calendar months' notice on either side.

Forms of application may be obtained on application to the Director of Education, Education Offices, Woodlands-road, Middlesbrough, to whom completed forms should be returned not later than Saturday, 4th February, 1939.

Canvassing in any form will disqualify.

PRESTON KITCHEN, Town Clerk.

Town Clerk's Office, Municipal Buildings, Middlesbrough.
7th January, 1939.

The West Riding of Yorkshire Mental HOSPITALS BOARD.

APPOINTMENT OF AN ASSISTANT MEDICAL OFFICER.

STORTHES HALL MENTAL HOSPITAL, KIRKBURTON, Near HUDDERSFIELD.

Applications are invited for the appointment of an Assistant Medical Officer in the Board's service at the above Mental Hospital, at a commencing salary of £350 per annum, rising by annual increments of £25 to a maximum of £450 together with emoluments (board, apartments, and laundry), valued at £120 per annum. The Board will allow an extra £50 per annum to the successful candidate who (whilst on this scale) holds or obtains the Diploma in Psychological Medicine, for which this Hospital affords special study facilities.

It will be an advantage if candidates have had at least one year's experience in general medicine after qualification.

The appointment is subject to the provisions of the Asylums Officers' Superannuation Act, 1909, Class 1.

Applications, with copies of not more than two recent testimonials, stating age and full particulars, to reach the Medical Superintendent, Storthes Hall Mental Hospital, Kirkburton, near Huddersfield, not later than the 24th January, 1939.

There is no printed form of application.

G. L. BANNER, Clerk of the Board.

Board Offices, Wakefield, January, 1939.

The Hospital for Sick Children,

NEWCASTLE-UPON-TYNE.

Applications are invited for

TWO HOUSE SURGEONS

(Male or Female) for six months as from 1st March, 1939. Salary at the rate of £100 per annum, together with board, residence, and laundry.

Applications, stating age and qualifications, together with copies of testimonials, to be sent to the Secretary, Mr. NEIL BRODIE, 18, City-road, Newcastle-upon-Tyne, 1.

The Royal Liverpool Children's HOSPITAL.

APPOINTMENT OF HONORARY ASSISTANT PHYSICIAN.

The Council invite applications for the position of Honorary Assistant Physician to the Hospital. Applications (30 copies), accompanied by copies of testimonials, must be addressed to the Chairman, Royal Liverpool Children's Hospital, Myrtle-street, Liverpool, 7, by Saturday, 28th January, 1939.

Personal canvassing will be a disqualification.

A. DORIS EILLS, Chairman.

Royal Hampshire County Hospital,

WINCHESTER.

(187 Beds. 5 Resident Officers.)

Hospital recognised by the Royal College of Surgeons, England.

HOUSE SURGEON.

Applications are invited from fully qualified men for the above post, to take up duties on 1st February. Six months' appointment Salary £100 per annum, with board, residence, and laundry.

Candidates, who must be of British nationality, to make application to the undersigned, enclosing copies of three testimonials.

HERBERT MASLEN, Secretary.

5th January, 1939.

The Royal Hospital, Wolverhampton.

(Incorporated under Charter.)

GYNÆCOLOGICAL AND OBSTETRIC DEPARTMENT.

ASSISTANT RESIDENT MEDICAL OFFICER (Female) required for the above Department (60 Beds) duties to commence 1st February, 1939.

Candidates must be registered under the Medical Acts and unmarried.

The appointment is for six months. Salary at the rate of £100 per annum. Board, furnished rooms and laundry provided.

Applications, with copies of testimonials, to be forwarded to the undersigned.

W. H. HARPER, House Governor.

Wolverhampton, 2nd January, 1939.

The Prince of Wales's Hospital,

GREENBANK ROAD, PLYMOUTH.

(Formerly South Devon and East Cornwall Hospital.)

(264 Beds.)

Applications are invited for the posts of HOUSE PHYSICIAN and HOUSE SURGEON. Salary £120 per annum, with board, residence, and laundry.

Appointments are tenable for seven months and are subject to renewal. Duties to commence 10th February.

The Hospital is officially recognised for the surgical practice required before admission to the Final Fellowship Examination of the Royal College of Physicians and Surgeons of England.

Applicants must be registered under the Medical Acts and be members of either the Medical Defence Union or the London Counties Medical Protection Society.

Applications, stating age and qualifications, with copies of three recent testimonials, to reach the undersigned by the 20th January.

ARTHUR R. CASH, General Superintendent.

2nd January, 1939.

City and County of Newcastle-upon-Tyne.

NEWCASTLE GENERAL HOSPITAL. (800 Beds.)

HOUSE PHYSICIANS AND HOUSE SURGEONS.

(Male or Female.)

Applications are invited from duly qualified and registered Medical Practitioners for the above posts (five) which will become vacant on the 1st February, 1939.

The salary in respect of each of the appointments, which are tenable for six months, is at the rate of £150 per annum, with board, lodging, &c.

Applications, stating age and qualifications, together with copies of not more than two recent testimonials, must be submitted to the Medical Officer of Health, Town Hall, Newcastle-upon-Tyne, 1, not later than Wednesday, 18th January, 1939.

Royal Sussex County Hospital,

BRIGHTON.

Applications are invited for the offices of HONORARY PHYSICIAN and (in the event of a vacancy occurring) HONORARY ASSISTANT PHYSICIAN from gentlemen who are Doctors of Medicine of one of the Universities of the British Empire, or Fellows or Members of the Royal College of Physicians of London, Edinburgh, or Dublin, and who are duly registered under the Medical Acts.

Further particulars of the above mentioned appointments may be obtained from the undersigned.

Applications must reach the Secretary-Superintendent at the Hospital before 12 noon on Monday, 23rd January, 1939.

L. L. W. LANCASTER-GAYE, Secretary-Superintendent.

The Stockport Infirmary.

(143 Beds.)

The Board invite applications for the post of RESIDENT SURGICAL OFFICER (Male and unmarried).

Salary £250 per annum, together with board, residence, and laundry.

Previous resident hospital experience essential. The Resident Staff consists of a Resident Surgical Officer, two House Surgeons and a House Physician.

Applications, with copies of three recent testimonials, stating age, nationality, qualifications, and experience, to be sent to the undersigned on or before January 19th. Duties to commence February 15th.

H. G. PRICE, Secretary-Superintendent.

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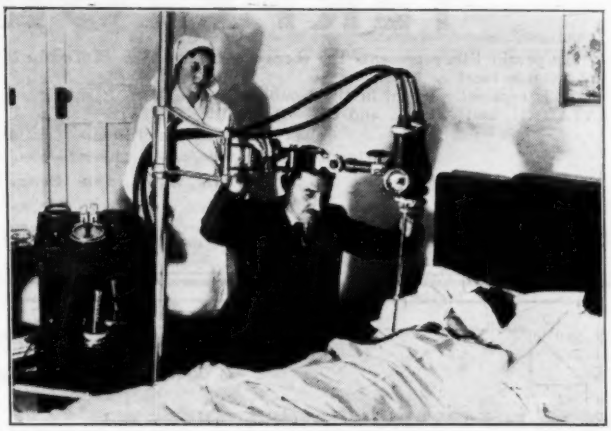

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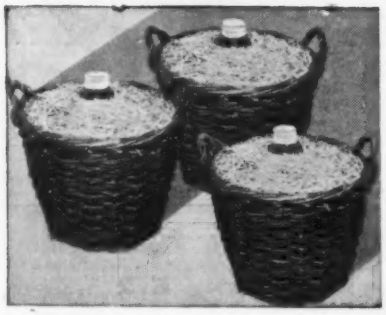

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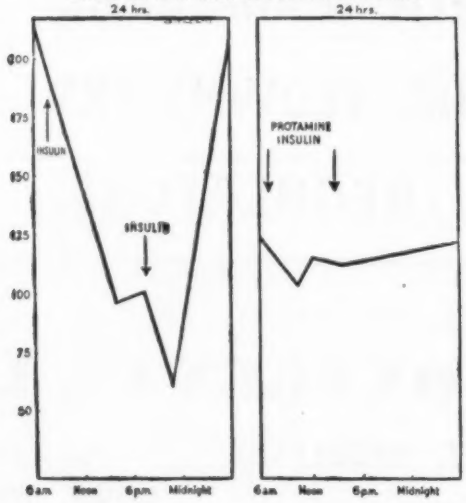

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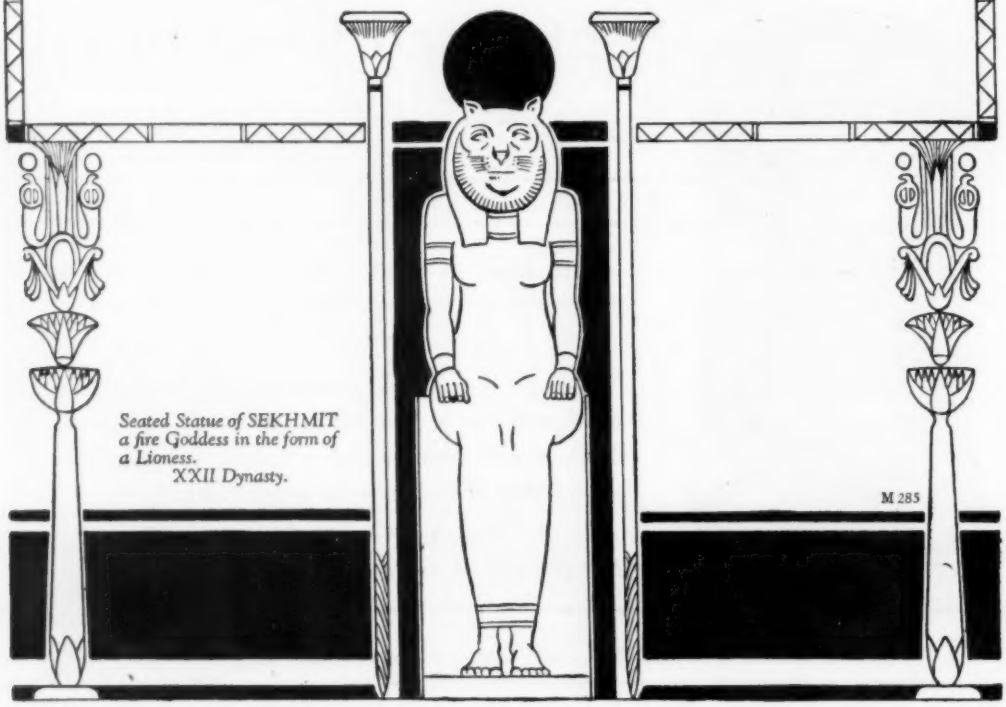

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Set of 2 x 0.5 cc. immunising doses	4/- per box
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ANOREXIA is often closely connected with deficiency of vitamin B_1 which manifests itself also by reduced secretory and motor activity of the gastro-intestinal tract. The patients who can be benefited by the administration of vitamin B_1 include those with a failing appetite and malnutrition and those in whom the appetite and nutrition have been impaired by an acute or chronic exhausting illness.

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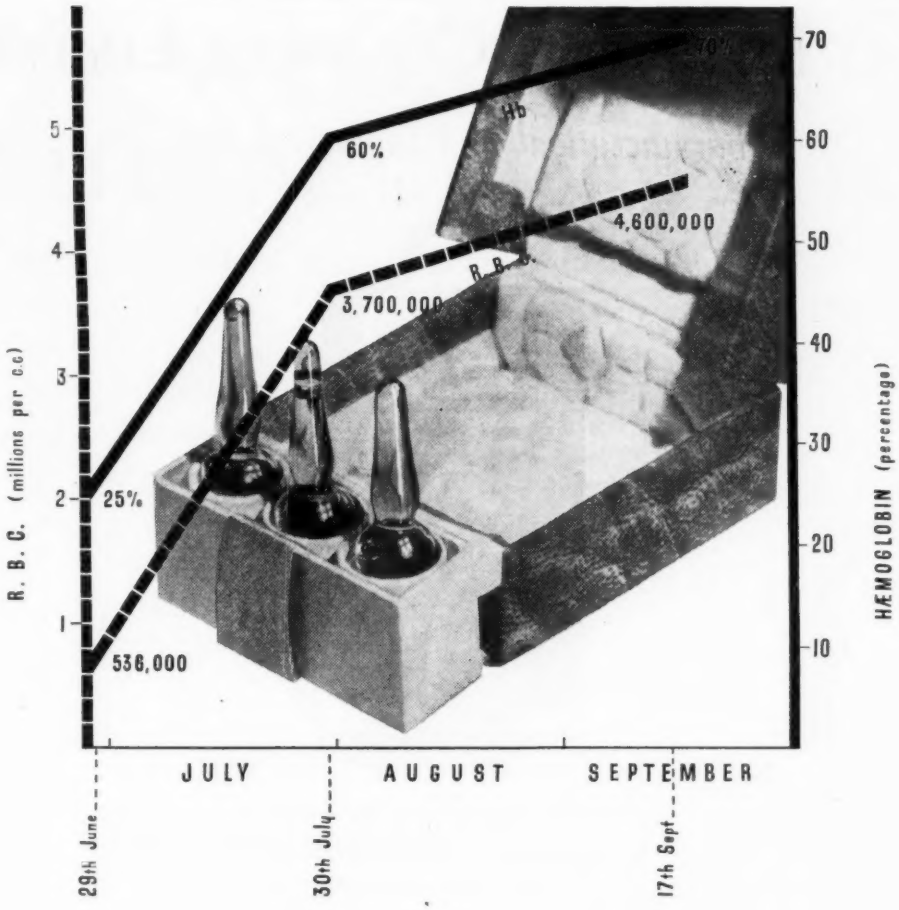

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The administration of Anahæmin in pernicious anæmia has become a routine as a result of the uniformly satisfactory results produced.

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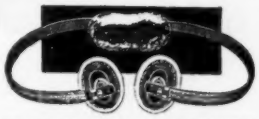

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Within two miles of the G.W. and [illegible] stations at Gloucester, the Hospital is easily a[illegible] by rail from London and all other parts of the United Kingdom. It is beautifully situated at the foot of the Cotswold Hills, and stands in its own grounds of over 300 acres. Voluntary Patients of both sexes also are received for treatment. Special accommodation is also provided at five villa residences, all of which stand in their own grounds and are entirely separate from the main Hospital.

For particulars as to terms, &c., apply to G. W. T. H. FLEMING, M.R.C.S., L.R.C.P., D.P.M., Physician Superintendent.

Telephone: No. 6207 Gloucester.

THE NEW MENTAL NURSES CO-OPERATION

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Specially trained Nurses for Mental and Nerve cases (All Nurses are insured under the Employers Liability Act, 1906.) Apply the Supt.

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For forms of admission, &c., apply to the Resident Physician, CEDRIC W. BOWER.

INTERVIEWS IN LONDON BY APPOINTMENT.

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(18 miles from London.) 400 feet above sea.

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A Private Hospital or Clinic for the diagnosis and treatment of Internal Diseases (except Mental or Infectious Diseases).

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An examination and consultation fee of 15 guineas is charged on the first visit.

The climate is mild. The annual rainfall is 30·5 inches, that is, less than the average for England. There is central heating throughout.

Address—THE SECRETARY, Ruthin Castle, North Wales.

Telegrams: Castle, Ruthin. *Telephone:* Ruthin 66.

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The buildings face S.S.W. and are sheltered from the sea by a pine-clad ridge. The sunshine record and dry air complete a perfect site. The medical equipment is of the latest kind, and there is a day and night nursing staff.

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Superior trained Nurses for Medical, Surgical, Mental Dipsomania, Travelling and all cases. Nurses reside on the premises and are always ready for urgent calls Day and Night. Skilled Masseuses, Masseurs, and good Valet attendants supplied. *Terms from £3 13 6. Apply to the Secretary or Lady Supt.*

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'Phone: BEDFORD 3417. **Near BEDFORD**

For Mental Cases with or without Certificates.

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A Private Hospital or Clinic for the diagnosis and treatment of Internal Diseases (except Mental or Infectious Diseases).

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An examination and consultation fee of 15 guineas is charged on the first visit.

The climate is mild. The annual rainfall is 30·5 inches, that is, less than the average for England. There is central heating throughout.

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Telegrams: Castle, Ruthin. *Telephone:* Ruthin 66.

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The central building makes the Mundesley Sanatorium the best equipped building in England for the cure of Tuberculosis. All the bedrooms have hot and cold running water, electric light, and wireless head-phones. The public rooms are spacious and comfortable.

Resident Physicians:
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GEORGE H. DAY,
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For all information apply:
THE SECRETARY,
THE SANATORIUM,
MUNDESLEY, NORFOLK.
Telephone: Mundesley 94 and 95 (2 lines)

The buildings face S.S.W. and are sheltered from the sea by a pine-clad ridge. The sunshine record and dry air complete a perfect site. The medical equipment is of the latest kind, and there is a day and night nursing staff.

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Phone: WICKHAM MARKET 216
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RENDLESHAM HALL

has 45 Bedrooms, and about 450 acres of Gardens and Park and a nine hole Golf Course.

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THE MAUDSLEY HOSPITAL, DENMARK HILL, S.E.5.

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A CLINIC instituted by the London County Council for treatment of Nervous and Curable Mental Disorder. Voluntary patients *only* received.

New Out-patients.—Men: Mondays and Thursdays, 2 P.M. Women: Tuesdays and Fridays, 2 P.M. Children: Mondays and Fridays, 10 A.M. In-patients (a) 235 beds (both sexes) in wards or separate rooms, including 35 beds in a ward of King's College Hospital which is in use as a temporary annexe of the Maudsley Hospital; (b) a special ward (including some private rooms) for those patients of each sex who are paying the full cost and are otherwise suitable. TERMS—£5 a week, but in the case of patients with a legal settlement in the County of London a less sum may be charged according to means.

Terms include (with rare exceptions) all forms of treatment, for which there are exceptional facilities as there is a Staff of Consultant Specialists, and the Central Laboratory of London County Mental Hospitals is attached to the Hospital. Inquiries of EDWARD MAPOTHER, M.D., F.R.C.P., F.R.C.S., Medical Superintendent.

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FOR THOSE REQUIRING CONTROL with EXPERT SUPERVISION and needing SPECIAL TRAINING in useful occupations, *SCHOOLS, FARMING, and various TRADE WORKSHOPS.*

Inclusive fees from £110 p.a. *THOSE UNABLE TO PAY FULL FEES* admitted by votes of subscribers with part payment towards cost.

RECREATIONS: Outdoor games. MALE STAFF BAND for Concerts, Dancing, etc.

Apply: THE MEDICAL SUPERINTENDENT, Earlswood, Redhill, Surrey, *'Phone:* REDHILL 344; or to the Secretary, Mr. H. STEPHENS, 14-16, Ludgate Hill, E.C.4, *'Phone:* CITY 4697.

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A Private Hospital for the Care and Treatment of those of both sexes suffering from MENTAL DISORDERS.

Extensive grounds. Detached Villas. Chapel. Garden and Dairy Produce from own farm. Terms very moderate.

CONVALESCENT HOME AT BOURNEMOUTH Detached Villas standing in 12 acres of ornamental grounds, with tennis courts, etc., which Voluntary, Temporary or Certified Patients may visit by arrangement for long or short period.

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This Sanatorium is established for the treatment of Tuberculosis of the Lungs and the Pleural Cavities. It is situated in the midst of a large area of park-land at a height of 450 feet above sea-level, on the South West slopes of mountains rising to over 1800 feet, which protect it from north and east winds and provide many miles of graduated walks with magnificent views. Average rainfall 29·57 per annum. Full day and night Nursing Staffs. X-Ray plant. Every facility for Artificial Pneumothorax and for operations on the chest. Electric Lighting. Central Heating. Home Farm. Grade A Milk from T.T. Herd.

For particulars apply to Medical Superintendent.

H. MORRISTON DAVIES, M.D., M.Ch. (Cantab.), F.R.C.S., Llanbedr Hall, Ruthin, N. Wales.

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A PRIVATE HOSPITAL for the treatment of mental and nervous illnesses. Conveniently situated and easy of access from all parts. Six acres of ground facing Finsbury Park. Voluntary and Temporary Patients received without certification. Occupational Therapy, Psychotherapy, and other modern forms of treatment.

Telephone: Stamford Hill 2688. *Telegrams:* "SUBSIDIARY, LONDON."

Convalescent Home, KEARSNEY COURT, DOVER.

For further particulars apply to the MEDICAL SUPERINTENDENT.

CHEADLE ROYAL HOSPITAL, Cheadle, Cheshire.

This REGISTERED HOSPITAL, with a SEASIDE BRANCH at Colwyn Bay, N. Wales, is for the treatment and care of those of the Upper and Middle Classes suffering from MENTAL AND NERVOUS DISEASES.

The Hospital is governed by a COMMITTEE, appointed by the TRUSTEES of the Manchester Royal Infirmary.

In addition to the Main Buildings there are separate villas. Extensive grounds. Hard and grass tennis courts, cricket and croquet grounds, and a court for badminton. There are also wireless installations. Golf may be had within easy distance. Occupational Therapy.

VOLUNTARY, TEMPORARY, AND CERTIFIED PATIENTS received.

The Hospital is nine miles from Manchester, 50 minutes by rail from Liverpool, and 3½ hours from London.

For terms and further particulars apply to the Medical Superintendent, who may be seen in Manchester BY APPOINTMENT. *Telephone: Gatley* 2231 (3 lines).

CRICHTON ROYAL, DUMFRIES

For NERVOUS AND MENTAL DISORDERS

This hospital has every facility for complete investigation of the above conditions, and provides all forms of modern treatment, including psychotherapy, physiotherapy, occupational and recreational therapy. Cases of alcoholism and drug addiction are admitted. The Physiotherapy Department has separate units fully equipped for X-ray work, heliotherapy, short-wave therapy, electro-therapy, and hydrotherapy (swimming bath, prolonged baths, Scotch and Vichy douches, Plombières treatment, electric and Turkish bath cabinets, etc.). There is a fully equipped gymnasium under qualified instructors. Facilities are provided under special recreational therapists for all indoor and outdoor games, including golf course, cricket, football and hockey grounds, lawn tennis and squash courts, croquet and bowling greens. The Hospital has its own Church, Library, Cinema and Hairdressing Saloon. Terms include regular motor drives. Private rooms, suites, or villas are available, and special nurses can be provided. The hospital grounds extending to nearly 1000 acres are situated in delightful country and include an extensive farm (T.T. herd), gardens and orchards. As the hospital is well endowed terms are exceptionally moderate, e.g., First Department 3 to 30 guineas per week, Second Department 2 and 2½ guineas per week. Voluntary and certified patients are received. Medical Certificates given anywhere in the British Isles are valid for admission of patients.

For prospectus, necessary forms, and further information apply to:—

Physician Superintendent, P. K. McCowan, J.P., M.D., F.R.C.P., D.P.M., Barrister-at-Law. *Tel.* Dumfries 1119.

ST. ANDREW'S HOSPITAL

FOR NERVOUS AND MENTAL DISORDERS,

NORTHAMPTON

FOR THE UPPER AND MIDDLE CLASSES ONLY.

PRESIDENT: THE MOST HON. THE MARQUESS OF EXETER, K.G., C.M.G., A.D.C.

MEDICAL SUPERINTENDENT: THOMAS TENNENT, M.D., M.R.C.P., D.P.H., D.P.M.

This Registered Hospital is situated in 130 acres of park and pleasure grounds. Voluntary patients, who are suffering from incipient mental disorders or who wish to prevent recurrent attacks of mental trouble; temporary patients, and certified patients of both sexes are received for treatment. Careful clinical, bio-chemical, bacteriological, and pathological examinations. Private rooms with special nurses, male or female, in the Hospital or in one of the numerous villas in the grounds of the various branches can be provided.

WANTAGE HOUSE

This is a Reception Hospital in detached grounds with a separate entrance, to which patients can be admitted. It is equipped with all the apparatus for the complete investigation and treatment of Mental and Nervous Disorders by the most modern methods; insulin treatment is available for suitable cases. It contains special departments for hydrotherapy by various methods, including Turkish and Russian baths, the prolonged immersion bath, Vichy Douche, Scotch Douche, Electrical baths, Plombieres treatment, etc. There is an Operating Theatre, a Dental Surgery, an X-Ray Room, an Ultra-violet Apparatus, and a Department for Diathermy and High-frequency treatment. It also contains Laboratories for bio-chemical, bacteriological, and pathological research. Psychotherapeutic treatment is employed when indicated.

MOULTON PARK

Two miles from the Main Hospital there are several branch establishments and villas situated in a park and farm of 650 acres. Milk, meat, fruit, and vegetables are supplied to the Hospital from the farm, gardens, and orchards of Moulton Park. Occupational therapy is a feature of this branch, and patients are given every facility for occupying themselves in farming, gardening, and fruit growing.

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The seaside house of St. Andrew's Hospital is beautifully situated in a Park of 330 acres, at Llanfairfechan, amidst the finest scenery in North Wales. On the North-West side of the Estate a mile of sea coast forms the boundary. Patients may visit this branch for a short seaside change or for longer periods. The Hospital has its own private bathing house on the seashore. There is trout-fishing in the park.

At all the branches of the Hospital there are cricket grounds, football and hockey grounds, lawn tennis courts (grass and hard courts), croquet grounds, golf courses, and bowling greens. Ladies and gentlemen have their own gardens, and facilities are provided for handicrafts, such as carpentry, etc.

For terms and further particulars apply to the Medical Superintendent (TELEPHONE: No. 2356 and 2357 Northampton), who can be seen in London by appointment.

PECKHAM HOUSE, 112, Peckham Road, London, S.E.15

Telegrams: "Alleviated, London." **Telephones: Rodney 2641 and 2642.**

The above House is for the care and treatment of persons suffering from mental diseases and nervous disorders. Certified voluntary and temporary patients are received. Separate houses for treatment and accommodation of special cases adjoin the Institution. Occupational therapy, physical drill, and other forms of modern treatment. There is a seaside branch, Kearsney Court, near Dover, to which patients may be sent for treatment or on holiday. Motor drives are arranged when required. Tennis courts. Entertainments, dances, and indoor amusements held throughout the year. Terms from £3 3s. per week. Illustrated prospectus and further particulars can be obtained from the MEDICAL SUPERINTENDENT.

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Home life for Ladies and Gentlemen MENTALLY AFFLICTED. Voluntary Patients received without Certificates. The Retreat is pleasantly situated in extensive grounds on the banks of the River Colne, a part of which celebrated trout stream flows through the Estate. There is every facility for sport and Occupational Therapy. The neighbourhood abounds in pleasant walks, and Fairford, being in the Cotswolds on a dry oolitic soil, is remarkably healthy. Own farm and dairy produce.

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First opened in 1898 and rebuilt in 1925 on the Cotswold Hills seven miles from Cheltenham, for the treatment of Pulmonary and all other forms of Tuberculosis. Aspect S.S.W., sheltered from North and East, elevation 800 feet. Pure bracing air, SPECIAL TREATMENT by artificial PNEUMOTHORAX (X-ray controlled). TUBERCULINS, and ULTRA-VIOLET RAYS is available when necessary without extra charge. X-RAY plant, Fully Equipped Dental Department, Electric Light Radiators, hot and cold basins and Wireless in all rooms. Up-to-date drainage. Full day & night Nursing Staff. **Terms 5 to 7½ Guineas a week inclusive.**

Med. Supt.: GEOFFREY A. HOFFMAN, B.A., M.B., T.C. Dub. *Asst. Phys.:* MARGARET A. HARRISON, M.B., B.S. Lond. *Cons. Laryngologist:* G. N. BARKER, F.R.C.S. Edin., D.L.O. *Cons. Dent. Surgeon:* GEORGE V. SAUNDERS, L.D.S.R.C.S. Lond. *Phone:* 81 & 82 Witcombe. Apply: *The Secretary, The Cotswold Sanatorium, Cranham, Gloucester. Telegrams:* "Hoffman, Birdlip."

PRIOR PLACE SANATORIUM

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FOR THE TREATMENT OF PULMONARY TUBERCULOSIS

Well situated on high ground and surrounded by pines and heather.
All rooms are fitted with electric light, wash basins with hot and cold water, and radiators.
X ray plant. Day and night nursing staff.

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COURT HALL, KENTON, near EXETER

FOR THE TREATMENT OF EIGHT LADIES, VOLUNTARY, TEMPORARY AND CERTIFIED PATIENTS

CLIFFDEN, TEIGNMOUTH

FOR EARLY AND CONVALESCENT CASES — Recreational Therapies are held daily by skilled Leaders

The house stands high with spacious balconies and extensive views of the South Devon Coast. Beautiful garden. Own Dairy in 25 acres. Private road to beach. There is also a charming house, **EBWORTHY, MANATON, DARTMOOR,** situated in 20 acres, 1100 ft. up for bracing moorland air.

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Telephones—STARCROSS 59 and TEIGNMOUTH 289

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Telegrams: "PSYCHOLIA, LONDON." **33, PECKHAM RD., LONDON, S.E.5.** Telephone: Rodney 4242 (2 lines).

For the treatment of MENTAL DISORDERS.

Also completely detached Villas for Mild Cases, with private suites if desired. Voluntary Patients received. Twenty acres of Grounds, Hard and Grass Tennis Courts, Putting Greens, Bowls, Croquet, Squash Rackets, Recreation Hall with Badminton Court, and all indoor amusements, including Wireless and other Concerts, Occupational Therapy, Calisthenics, and Dancing Classes. X-ray and Actino-therapy, Prolonged Immersion Baths, Operating Theatre, Pathological Laboratory, Dental Surgery, and Ophthalmic Department. Chapel.

Senior Physician: Dr. HUBERT JAMES NORMAN, assisted by three Medical Officers, also resident and visiting Consultants.

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For the reception and treatment of PRIVATE PATIENTS of both sexes of the UPPER AND MIDDLE CLASSES suffering from Mental and Nervous Diseases, either voluntarily, temporarily, or under certificate. Patients are classified in separate buildings according to their mental condition. Situated in park and grounds of 400 acres. Self-supported by its own farm and gardens in which patients are encouraged to occupy themselves. Every facility for indoor and outdoor recreation. For terms, prospectus, etc., apply MEDICAL SUPERINTENDENT. *'Phone:* Ashton-in-Makerfield 7311. *Tele. Address:* Street, Ashton-in-Makerfield.

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Situated in 3½ acres of secluded gardens.

HOME FOR TWELVE MENTAL PATIENTS (LADIES).

Well-appointed private house. Home comforts and Trained Nursing Staff. Eminent Mental Specialist. Visiting Physician.

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Phone: Tulse Hill 4913

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For LADIES and GENTLEMEN of Unsound Mind.

Terms moderate. Apply to Resident Medical Superintendent. Telegrams: ADAM WEST MALLING. Telephone No. 2: MALLING.

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A PRIVATE HOME for the treatment of gentlemen suffering from Mental and Nervous illness, including the allied Disorders of Alcoholism and the Drug Habit. All types of early Mental and Nervous Cases are received without Certificates as Voluntary Patients under the provisions of the Mental Treatment Act, 1930. Bracing hill country. See "Medical Directory," p. 2368.—Apply to the Medical Superintendent. 'Phone 10 P.O., Church Stretton.

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Ladies only received

The Grove, Old Catton, Norwich.

A High-class Home for the Curative Treatment of Nervous Affections. Voluntary Boarders are also received without certificates.

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An attractive and comfortable PRIVATE HOME. Beautifully situated in its own grounds, 400 feet above sea level. Exceptionally healthy air and position affords every facility for convalescence. Foam Baths, Billiards, Squash Racquets, Lawn Tennis, Croquet, Bowls, Farm Produce, &c.

Treatment for Ladies and Gentlemen suffering from Insomnia, Functional Nervous Disorders, Alcohol and Drug Habits, Chronic Heart and Kidney Diseases, also Convalescing Cases.

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Near DARTFORD, KENT.

Ladies and Gentlemen received for treatment under certificates, and without certificates as either VOLUNTARY or TEMPORARY PATIENTS, at a weekly fee of £2 9s., and upwards.

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Christchurch Road, Streatham Hill, S.W.2

A Private Home for the Treatment of LADIES with Mental and Nervous Disorders. Psycho-Therapy, Physio-Therapy, &c. 12 acres of grounds

Apply: Dr. MADELINE R. LOCKWOOD, *phone:* TULSE HILL 7181 *Resident Physician Superintendent.*

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A Private Hospital for the Treatment and Care of Mental and Nervous Illnesses in both Sexes.

A modern country house, 12 miles from Marble Arch, in attractive and secluded surroundings. Fees from 10 guineas per week inclusive. Cases under Certificate, Voluntary and Temporary Patients received for treatment.

DOUGLAS MACAULAY, M.D., D.P.M.

HEIGHAM HALL, NORWICH

A PRIVATE MENTAL HOME situated in 14 acres of well-wooded grounds. For Ladies and Gentlemen suffering from Nervous or Mental Illness. Voluntary Patients, Temporary Patients, and Patients under Certificates are admitted for Treatment. Fees: from 4 guineas a week upwards, according to requirements. A few vacancies exist for Ladies and Gentlemen at reduced fees on the recommendation of the Patient's own Physician.

Apply to Dr. J. A. SMALL.
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Accommodation is provided for the reception of PRIVATE PATIENTS of both sexes in three detached Villas, which are healthily and pleasantly situated in extensive grounds with sea views.

Charges from 3 guineas weekly, including all necessaries except clothing.—Apply to the Medical Superintendent and Resident Physician, THOMAS BEATON, O.B.E., M.D., F.R.C.P.

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A PRIVATE HOME for the care and treatment of a limited number of Ladies Mentally Afflicted.

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Modern Spa Treatments, including Continental Plstany Mud and Scotch Douche, for Rheumatic and similar disabilities. Resident Physician. Excellent amenities and Recreational facilities.

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Extended in 1925 for the diagnosis and treatment of chronic and crippling diseases in adults and children. Congenital malformations, osteomyelitis, surgical tuberculosis, rheumatic diseases and all orthopædic conditions accepted. **Special provision for children who may be educated during treatment. Resident governess and visiting tutors. Preparation for examinations.** Full visiting staff. R.M.O. Full day and night nursing staff. Operating theatre, plaster room, x-rays, short-wave therapy, elaborately equipped light department. Own instrument maker. Chef. Special attention to diets. Acute anterior poliomyelitis and other infectious conditions treated in separate self-contained isolation block.—Apply Secretary.

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Unrivalled suites of Baths—Turkish and Russian Baths, Aix and Vichy Douches, Massage; Plombières Treatment. Studs Chair. Electric Installation for Baths and other Medical Purposes, Dowsing Radiant Heat, Infra-red Light, Artificial Sunlight, D'Arsonval High Frequency, Diathermy, Nauheim Baths, Soapless Foam Baths, etc. "Certified" Milk from own farm. Large Winter Garden. Orchestra. Special provision for Invalids. Night attendance. Over 60 trained Male and Female Nurses, Masseurs, Attendants, etc.

Resident Physicians: G. C. R. HARBINSON, M.B., B.Ch., B.A.O. (R.U.I.), H. RHYS DAVIES, B.A., M.B., B.Ch., B.A.O. **TERMS, 13s. to 18s. per day, include Turkish and other Baths.** *Illustrated Brochure C.J. on request.*

'Phone: Matlock 17 (3 lines). *'Grams:* Smedleys, Matlock.

The Belgrave Hospital for Children, Clapham-road, S.W.9.

The Committee of Management invite applications for the post of ASSISTANT PHYSICIAN. Candidates must be Graduates in Medicine of an English University and Fellows or Members of the Royal College of Physicians, London. There is an honorarium attached to the post.

Applications, with copies of testimonials, must be delivered to the undersigned by Friday, February 3rd, from whom further information may be obtained.

By Order.
THOMAS CLAPHAM, Secretary.

Royal College of Physicians of London.

LEVERHULME RESEARCH SCHOLARSHIP.

A Leverhulme Research Scholarship will shortly be awarded by the Royal College of Physicians of London to commence in May, 1939.

The Scholarship will be of the annual value of £500, and will be for one year in the first instance, but renewable from year to year at the discretion of the College for a maximum of three years, though it may be extended over this period in exceptional circumstances.

Scholars must be British subjects of not less than twenty-five years of age and may be of either sex; preference will be given to persons holding a medical qualification.

Scholars must devote themselves to the investigation of some problem of disease in any branch of medicine. The work must have as its base some established institution, preferably in the United Kingdom, in which full facilities for the research are available.

Applications must be sent before Monday, January 23rd, to the Assistant Registrar, Royal College of Physicians, Pall Mall East, S.W.1, from whom application forms, and all details, may be obtained.

The Queen's Hospital for Children, Hackney-road, London, E.2. (160 Beds.)

HOUSE SURGEON required 1st March, 1939.

CASUALTY OFFICER required 1st March, 1939. Some Dermatological work in addition.

Six months' appointments. Salary at the rate of £100 per year, with board, lodging, and laundry in each case.

Applications must be made on forms to be obtained from the undersigned, and be sent in, with copies of not more than three testimonials, on or before 4th February, 1939.

CHARLES H. BESSELL, Secretary.

3rd January, 1939.

THE ARMY DENTAL CORPS

Applications are invited from DENTAL SURGEONS for appointment to commissions in The Army Dental Corps.

Candidates, who should not be over twenty-eight years of age, will for the present be selected for commissions without competitive examination, but will be required to present themselves in London for interview and physical examination. They must hold the degree or diploma of a British University or College of Surgeons and be registered under the Dentists' Acts or Medical Acts.

Successful candidates will, in the first instance, be given short service commissions for six years, at the end of which period they will retire with a gratuity of £1000, unless they have been granted permanent commissions. Permanent commissions will be given to officers selected from among those who wish to make the Army their permanent career.

Particulars, including Regulations for admission, pay, and allowances, and forms of application may be obtained on request either in writing or in person to the Director, Army Dental Service, The War Office, London, S.W.1.

ROYAL NAVAL MEDICAL SERVICE

Vacancies exist for MEDICAL OFFICERS in the Royal Navy, and applications are invited for entry in March, 1939.

Candidates below the age of 28 years are preferred, and they must be registered under the Medical Acts. No examination in professional subjects will be held but candidates will be required to attend for interview by a Selection Board.

Selected candidates will be entered for Service for a period of three years, which if desired is usually extended to five years at the discretion of the Admiralty.

Officers who leave the Service at the end of the initial period of three years will be eligible for a gratuity of £400, and those who leave at the end of five years for a gratuity of £1,000.

At the end of five years' Short Service permanent commissions will be given to selected officers who wish to make the Naval Medical Service their permanent career. Officers transferred to the permanent list will receive a gratuity of £1,000 (less Income Tax).

Full opportunities exist for transfer to the permanent list. Marriage Allowance is paid under the same conditions as for other Naval Officers.

Opportunities are available for officers on the permanent list for post-graduate study, to specialise, to take higher examinations and to obtain further qualifications.

Copies of the regulations for entry and conditions of Service, including rates of pay, allowances and retired pay, may be obtained from the Medical Director-General of the Navy, Admiralty, S.W.1, and from the Deans of all Medical Schools.

Applications for entry from intending candidates must be received not later than 28th February, 1939.

St. Pancras Borough Council.

PUBLIC HEALTH DEPARTMENT.

Applications are invited for a MEDICAL OFFICER to take charge of a Gynæcological Clinic which is to be established in the locality of Kentish Town, N.W.5. Sessions will be held once a week from 6 P.M. to 8 P.M. on an evening to be arranged. The purpose of this clinic is mainly for treating minor gynæcological disorders and for giving advice on contraceptive methods for medical reasons. The fee payable to the Medical Officer will be two guineas per consultation.

Applications are invited from ladies or gentlemen who have had special experience in these branches of medicine. Applicants must give full particulars as to their age, training, qualifications, experience, past and present appointments, and transmit not more than three testimonials (copies only). Applications must be received by the undersigned not later than Monday, 30th January, 1939.

A. POWELL COKE, Town Clerk.

Town Hall, Euston Road, N.W.1.

Royal College of Physicians.

STREATFEILD RESEARCH SCHOLARSHIP IN MEDICINE AND SURGERY.

In accordance with the Trust founded by Mrs. Eliza Streatfeild for the promotion of Research in Medicine and Surgery, a Committee of the Royal College of Physicians of London and of the Royal College of Surgeons of England will proceed to appoint a STREATFEILD RESEARCH SCHOLAR.

The emolument will probably be £250 per annum, and the tenure of the Scholarship three years, at the discretion of the Committee, the appointment to date from May 1st, 1939.

A form stating the nature of the particulars which each candidate is required to give may be obtained from the Assistant Registrar, Royal College of Physicians, Pall Mall East, S.W.1.

Applications should reach the Assistant Registrar not later than Monday, January 23rd. The envelope should be marked "Streatfeild Scholarship."

Hospital for Tropical Diseases,

Gordon-street, W.C.1 (Seamen's Hospital Society).—Two HOUSE PHYSICIANS (Male) required for six months, one as from 1st February, 1939, and one as from 1st March, 1939. Salary £120 per annum, with board, residence, and laundry.

Applications, stating age and nationality, with copies of three testimonials, to be sent in on or before 23rd January to the undersigned.

D. A. C. PRICE, Secretary,
Hospital for Tropical Diseases,
Gordon-street, W.C.1.

9th January, 1939.

AIR RAID PRECAUTIONS DEPARTMENT, HOME OFFICE.

MEDICAL INSTRUCTOR.

Applications are invited from qualified Medical Men or Women to fill a vacancy for an instructor to Medical Students, Medical Practitioners, and allied professions in the medical aspects of wartime anti-gas measures. Instructors may be required to operate from centres at London, Birmingham, Cambridge, Cardiff, Edinburgh, Glasgow, Leeds, Liverpool, Newcastle, Nottingham, Salisbury, Shrewsbury, and York. The selected candidate will be liable to serve anywhere in the United Kingdom. He will receive special training at one of the Civilian Anti-Gas Schools. Proficiency in lecturing or teaching is more important than previous knowledge of anti-gas measures.

The appointment, which is whole time and non-pensionable, carries a salary of £550 a year, plus travelling expenses, and subsistence allowances whilst away from centre.

Applications, containing the following details, should be addressed to the Establishment Officer, Home Office, Whitehall, London, S.W.1, and should reach the Home Office not later than the 27th January, 1939: Name and address in full; date of birth; particulars of medical schools; particulars of teaching experience; particulars of professional experience of war gases; and any other qualifications.

The Radium Institute,

Riding House-street, London, W.1

Applications are invited for the post of RESIDENT MEDICAL OFFICER. Candidates must be unmarried.

The salary will be at the rate of £250 per annum, board, residence, and laundry being provided, and the appointment is for six months commencing 6th February, 1939.

Applications, stating age, nationality, qualifications, and experience, with copies of three recent testimonials, must be received at the Institute not later than the first post on the 31st January, 1939.

Canvassing, either directly or indirectly, is not permitted.

THOS. A. GARNER, Secretary.

Evelina Hospital for Sick Children,

Southwark, S.E.1.

Applications are invited for the post of HOUSE PHYSICIAN (Male) for six months from February 12th (first two months in the Casualty and Out-patient Department). Salary at the rate of £120 per annum, with board and residence.

Applications, with copies of three recent testimonials, should be sent to the undersigned, from whom all particulars can be obtained, not later than first post on January 25th.

W. H. SIDNELL, House Governor.

Princess Elizabeth of York Hospital

FOR CHILDREN
(Formerly East London Hospital for Children)
Shadwell, London, E.1.

Applications are invited for the appointment of HONORARY RADIOLOGIST in charge of the X-RAY and ELECTRO-THERAPEUTICAL DEPARTMENT to attend the above hospital regularly twice a week, emergencies excepted.

Candidates are required to hold a Diploma in Medical Radiology.

Applications, with copies of three testimonials, should be made by Monday, 6th February, to the undersigned from whom further particulars may be obtained.

EDWARD PENTON, Secretary-Superintendent.

London County Council.

Applications invited from Medical Practitioners of at least one year's standing for undermentioned positions. Candidates must have held resident appointment in a general hospital for at least six months. Married quarters not available.

ASSISTANT MEDICAL OFFICERS (Class I).—Salary £350–£25–£425, with board, lodging, and washing.

(*a*) HACKNEY HOSPITAL, Homerton High-street, E.9.—Obstetric and gynæcological duties.

(*b*) ST. GILES' HOSPITAL, St. Giles'-road, Camberwell, S.E.5. Medical duties.

(*c*) ST. JAMES' HOSPITAL, Ouseley-road, Balham, S.W.12. Duties in fracture and plastic surgery departments.

*(*d*) ST. MARY ABBOTS HOSPITAL, Marloes-road, Kensington, W.8. Obstetric and gynæcological duties.

(*e*) ST. PETER'S HOSPITAL, Fulbourne-street, Whitechapel, E.1. Duties mainly medical, experience in emergency surgery desirable.

* No accommodation for a woman.

ASSISTANT MEDICAL OFFICERS (Class II).—Salary £250 a year, together with board, lodging, and washing. Appointment for one year only in first instance (renewable for a second year under certain conditions).

(*f*) ST. LEONARD'S HOSPITAL, Nuttall-street, Kingsland-road, N.1.

(*g*) ST. STEPHEN'S HOSPITAL, 369, Fulham-road, S.W.10. Duties mainly medical, experience in anæsthetics desirable (both positions).

Application forms obtainable (stamped, addressed foolscap envelope necessary) from Medical Officer of Health, Staff Division 2B, County Hall, S.E.1, returnable by 6th February.

Canvassing disqualifies.

London County Council.

Applications invited from Medical Practitioners of at least one year's standing for position of Temporary Part-time RHEUMATISM REGISTRAR at ST. STEPHEN'S HOSPITAL, 369, Fulham-road, S.W.10. Appointment for one year in first instance. Salary £350.

Application forms obtainable (stamped, addressed foolscap envelope necessary) from Medical Officer of Health, Staff Division 2, County Hall, S.E.1, returnable by 30th January.

Canvassing disqualifies.

Dreadnought Hospital,

Greenwich, S.E.10. (Seamen's Hospital Society).—. Half-time Non-resident RECEIVING ROOM OFFICER required on the 1st March for seven months until 30th September. Morning or afternoon sessions with alternate Saturdays 9 A.M. to 12 NOON. Previous experience in resident posts essential The post is suitable for those studying for higher examinations. Salary at the rate of £150 per annum with meals.

Applications, stating age, nationality, and experience of House appointments, accompanied by copies of testimonials, to be sent in on or before 2nd February to the undersigned.

F. A. LYON, Secretary.

9th January, 1939.

Dreadnought Seamen's Hospital,

Greenwich, S.E.10.

The Committee of Management of the Seamen's Hospital Society invite applications for the post of HONORARY DERMATOLOGIST. The elected candidate will have care of In- and Out-Patients and will be appointed for twelve months, but will be eligible for reappointment.

Candidates must be Doctors of Medicine of a University in the United Kingdom, or Ireland; or Fellows or Members of the Royal College of Physicians, London.

Applications to be sent in on or before the 24th February to the undersigned from whom further particulars can be obtained.

By Order,
16th January, 1939. F. A. LYON, Secretary.

Woolwich and District War Memorial

HOSPITAL, Shooters-hill, London, S.E.18.

GENERAL HOSPITAL (112 Beds.)

The Board of Management invites applications from suitably qualified candidates for appointment as HONORARY ANÆSTHETIST for the Gynæcological session at NOON on Tuesdays. The honorarium will be fifty guineas per annum.

Applications should reach the undersigned by Monday, January 23rd, 1939, and short-listed candidates will be invited to meet the Appointments Committee on January 26th, at a time and place to be notified.

R. S. G. HUTCHINGS, Secretary.

Appointments for Medical Officers in The ROYAL AIR FORCE

Medical men are invited to apply for Short Service Commissions in the Royal Air Force.

Candidates must be registered under the Medical Acts and be not more than 31 years of age on entry.

The period of service is 3 years—extendible to 5 years. A gratuity of £400 or £1,000 is payable at the termination of 3 or 5 years respectively. Permanent commissions are awarded in a number of cases. These offer a pensionable career with the opportunity of extra leave on full pay for specialised study.

Applicants who hold—or are likely to hold—post-graduate appointments in civil hospitals may, on joining the Royal Air Force, be seconded until the termination of their appointments (for a period not exceeding one year) An antedate of commission, up to twelve months, is allowed for appointments held at approved hospitals.

Fuller information can be obtained from The Director of Medical Services, Air Ministry, Kingsway, London.

Central London Ophthalmic Hospital,
Judd-street, W.C.1.

Applications are invited for the post of HON. ASSISTANT PHYSICIAN. Candidates must be Fellows or Members of the Royal College of Physicians, London, or Doctors of Medicine of a British University, and will be required to attend Out-Patients for one session each week.

Applications, with copies of not less than three testimonials, should reach the undersigned by Wednesday, February 1.

GEORGE WATTS, Secretary.

National Hospital,
Queen-square, W.C.1.

HOUSE SURGEON.

Applications are invited for the post of House Surgeon. The work is concerned almost entirely with the surgery of the central nervous system, and it is desirable that candidates should have had previous experience in general surgery.

Applications, accompanied by three recent testimonials, should be sent to the undersigned not later than Tuesday, January 31st. The salary is £100 per annum, with board and lodging.

GODFREY H. HAMILTON, Secretary.

Dreadnought Hospital,
Greenwich, S.E.10.
(Seamen's Hospital Society.)
(257 Beds.)

HOUSE SURGEON required as from the 1st February for two months in the first instance. Salary £110 per annum and a proportion of fees, with board, residence, and laundry. V.D. Certificate obtainable.

Candidates must be Male and single.

Applications, with copies of three testimonials, to be sent in immediately to the undersigned.

16th January, 1939. F. A. LYON, Secretary.

St. George's Hospital, S.W.1.

Applications are invited for the appointment of RESIDENT ASSISTANT PHYSICIAN at the above Hospital. He must be a graduate in Medicine and Surgery of a British University and a Member of the Royal College of Physicians, London, and registered according to the Medical Act, 1858. Salary £250 per annum with emoluments.

Applications, accompanied by testimonials, of recent date, should be sent to the Secretary on or before 1st February 1939.

JAMES M. CHURCHFIELD, Secretary.

16th January, 1939.

Royal Free Hospital,
Gray's Inn-road, W.C.1.

Applications are invited from Medical Women who have had recent previous V.D. experience for the part-time appointment of ASSISTANT MEDICAL OFFICER in the department for treatment of Venereal Diseases (Female) vacant on the 1st April, 1939. Tenable for twelve months at a minimum salary of £300 per annum.

Intending candidates should submit applications, stating age and experience, with copies of three recent testimonials to the undersigned on, or before, 4th February.

RICHARD T. BARTLEY, Secretary.

West End Hospital for Nervous
DISEASES, Gloucester Gate, Regent's Park, N.W.1.

IN-PATIENT DEPARTMENT.

The Committee of Management invites applications for two RESIDENT HOUSE PHYSICIANS (Male). Duties to commence 1st March, 1939. Salary at the rate of £125 per annum, with board, residence, and laundry.

Preference will be given to candidates who have held a resident appointment in a general hospital.

Applications, with copies of three recent testimonials, must be received by the undersigned not later than Monday, January 30th, 1939.

J. P. WETENHALL, Secretary and House Governor.

73, Welbeck-street, W.1.

The West London Hospital Medical
SCHOOL,
West London Hospital, W.6.

There is a vacancy for the post of LECTURER IN FORENSIC MEDICINE. Candidates must be registered Medical Practitioners and have special experience of medico-legal work as well as previous experience in teaching.

Particulars as to duties, remuneration, &c., may be obtained from the Dean to whom applications, together with the names of not more than three referees, should be sent not later than Saturday, February 25th.

University College Hospital.

The post of REGISTRAR of the Royal Ear Hospital (Ear, Nose, and Throat Department of University College Hospital) will become vacant on the 1st March, 1939. Salary £250 per annum (non-resident) whole-time appointment.

Applications, with copies of three testimonials, should be sent to the Secretary, University College Hospital, W.C.1, before noon on Friday the 27th January, 1939.

Royal London Ophthalmic Hospital
(MOORFIELDS EYE HOSPITAL),
City-road, E.C.1.

Applications are invited for the posts of THREE OUT-PATIENT OFFICERS, two to attend on Tuesdays and Fridays and one to attend on Mondays and Thursdays (mornings) each week.

Salary at the rate of £100 per annum.

Candidates must be registered Medical Practitioners.

Copies of Regulations can be obtained on application.

Applications, with testimonials, stating age and qualifications together with photograph, must be received by the undersigned not later than the 3rd February, 1939.

A. J. M. TARRANT, Secretary.

The Hospital for Sick Children,
Great Ormond-street, London, W.C.1.

The post of CLINICAL PATHOLOGIST will be shortly vacant. Salary commencing at £600 per annum.

The appointment is full-time and non-resident. Facilities will be given for private pathological practice.

The successful candidate will be required to take up his duties preferably on the 1st March, 1939.

Candidates must be registered Medical Practitioners with special experience in bacteriology and clinical pathology.

Applications accompanied by not more than three testimonials given specially for the purpose must be delivered to the undersigned not later than noon on Monday, the 23rd January, 1939.

Candidates must be prepared to appear before the Joint Committee on Wednesday, 25th January, 1939, at 4.45 P.M.

Forms of application and details of the appointment are obtainable from the undersigned.

HERBERT F. RUTHERFORD, Secretary.

January, 1939.

Queen Mary's Hospital for the East
END, STRATFORD, E.15.

HONORARY ASSISTANT AURAL SURGEON.

There is a vacancy on the staff of this Hospital for an Honorary Assistant Aural Surgeon (with charge of Out-patients).

Applications, accompanied by copies of testimonials, from male candidates only, who must be Fellows of the Royal College of Surgeons of England, should be sent to the undersigned not later than Saturday, the 28th of January, 1939.

RAPHAEL JACKSON, Major, Secretary.

Saint Mary's Hospital for Women and
CHILDREN, Plaistow, E.13.

Applications are invited for the posts of RESIDENT SURGICAL OFFICER and RESIDENT HOUSE PHYSICIAN (vacant March 1st), Male or Female. The appointments are for six months. Board and residence are provided. Salaries at the rate of £155 and £150 per annum respectively, including £5 allowance for laundry. Personal canvassing not desired.

Applications, with copies of three recent testimonials, to be sent to the undersigned not later than February 6th.

A. ERNEST WILKES, Secretary.

West London Hospital,
Hammersmith-road, W.6. (239 Beds.)

Applications are invited for the post of SURGICAL REGISTRAR AND TUTOR (RESIDENT). Candidates must be duly qualified registered Medical Practitioners (Male), unmarried, and should hold one of the higher surgical qualifications. Salary is at the rate of £225 a year, with full board and residence. Four weeks' holiday a year. The appointment is for one year from 1st March next, terminable by three months' notice on either side, and, subject to annual re-election, may be extended to not more than three years.

The duties will include deputising for the Honorary Surgeons, teaching in the Medical School, and as Senior Resident Officer the candidate appointed will be responsible for certain administrative duties.

Applications, with copies of testimonials, should reach me not later than Saturday, 11th February. Candidates must attend a meeting of the Medical Council and House Committee on Friday, 24th February, at 4.30 P.M., and, prior to that date, call upon and send copies of their application and testimonials to each member thereof. They must not canvass members of the Board, but, if so notified, must attend a Meeting of the Board of Management on Tuesday, 28th February, at 5 P.M., when the appointment will be made.

H. A. MADGE, Secretary.

Miller General Hospital,
Greenwich-road, S.E.10.

Applications are invited for the post of ASSISTANT RADIOLOGIST. Candidates must possess a medical qualification and the D.M.R.E.

Candidates will be expected to call upon the Members of the Honorary Medical and Surgical Staff, a list of whom can be obtained from the Secretary.

An honorarium of £100 per annum will be allowed.

Applications, stating qualifications and experience, together with copies of not more than three recent testimonials, should be sent to the Secretary, on or before 30th January, 1939.

17th January, 1939.

County Borough of Barrow-in-Furness.

ASSISTANT MEDICAL OFFICER OF HEALTH AND ASSISTANT SCHOOL MEDICAL OFFICER (Male).

Applications are invited for the above appointment at an inclusive salary at the rate of £500 per annum, rising, subject to satisfactory service, by annual increments of £25 to £700 per annum.

The Committee may at their discretion take into account previous experience as an Assistant Medical Officer in determining the amount of the commencing salary.

Candidates must be fully qualified and registered Medical Practitioners and possess the Diploma in Public Health.

The appointment will be subject to the provisions of the Local Government and Other Officers' Superannuation Act, 1922, and the person appointed will be required to pass a medical examination.

Forms of application and particulars of the duties may be obtained on application to the Medical Officer of Health, Town Hall, Barrow-in-Furness, and completed applications, endorsed "Assistant Medical Officer of Health," accompanied by copies of not more than three recent testimonials, must be returned to my office not later than first post on Wednesday, the 25th instant.

Canvassing, either directly or indirectly, will disqualify.

W. LAWRENCE ALLEN, Town Clerk.

Town Hall, Barrow-in-Furness, 10th January, 1939.

The Hospital for Sick Children,

NEWCASTLE-UPON-TYNE.

Applications are invited for

TWO HOUSE SURGEONS

(Male or Female) for six months as from 1st March, 1939. Salary at the rate of £100 per annum, together with board, residence, and laundry.

Applications, stating age and qualifications, together with copies of testimonials, to be sent to the Secretary, Mr. NEIL BRODIE, 18, City-road, Newcastle-upon-Tyne, 1.

Surrey County Council.

PUBLIC HEALTH DEPARTMENT.

DORKING COUNTY HOSPITAL. (200 Beds.)

RESIDENT ASSISTANT MEDICAL OFFICER (Female).

Applications are invited for the post of Resident Assistant Medical Officer at the Dorking County Hospital, Horsham-road, Dorking.

Applicants should preferably have had previous experience as House Surgeon or House Physician.

The appointment is for a period of six months, renewable for a further period of six months, and the salary is at the rate of £250 per annum, together with full residential emoluments valued at £125 per annum.

Applications, stating age, qualifications, and experience, and enclosing copies of not more than three recent testimonials, should be sent to the County Medical Officer, County Hall, Kingston-on-Thames, so as to be received not later than the 25th January, 1939.

DUDLEY AUKLAND, Clerk of the Council.

County Hall, Kingston-upon-Thames, 13th January, 1939.

Liverpool Heart Hospital.

34, Oxford-street, Liverpool, 7.

HOUSE PHYSICIAN required (Male or Female) for six months from 21st March. Facilities for research and for M.D. thesis. Salary at rate of £100 per annum, with board, residence, and laundry.

Applications to Secretary.

National Sanatorium, Benenden, Kent.

The Council invite applications for the post of HOUSE PHYSICIAN.

Salary at the rate of £150 per annum, with board, residence, and laundry.

The successful candidate will be appointed for a period of six months commencing 1st March, 1939.

Candidates must be duly qualified and registered. Applications stating age, nationality, qualifications, and experience together with copies of three recent testimonials must be sent to the undersigned not later than 1st February, 1939.

C. C. LAWRENCE, Hon. Secretary,

National Sanatorium, Benenden, Cranbrook, Kent.

Envelopes should be marked "Personal."

Keighley and District Victoria Hospital.

YORKSHIRE, WEST RIDING.

(150 Beds.) (Two Residents.)

APPOINTMENT OF SECOND RESIDENT MEDICAL OFFICER.

Vacant 1st March, 1939.

Applications are invited from Registered Medical Practitioners (Female) for the above appointment. Proof of registration to be furnished before appointment.

Salary £120 per annum, together with full residential emoluments.

Term, six months, renewable.

Applications, with particulars of age, experience, nationality, together with copies of two recent testimonials, to be sent to the undersigned not later than Saturday, 28th January, 1939.

J. YOUNG, Secretary-Superintendent.

Manchester Royal Eye Hospital.

JUNIOR HOUSE SURGEON required. Salary £120 per annum, with residence, board, &c.

Applications, with copies of testimonials, endorsed "House Surgeon" to be addressed to the undermentioned.

H. R. NORTH, General Superintendent and Secretary.

Stirling District Mental Hospital,

LARBERT.

THIRD ASSISTANT MEDICAL OFFICER required (Male), commencing salary £300 per annum, rising by annual increments of £25 to £400, with board, lodging, and laundry. Appointment subject to provisions of Asylums Officers' Superannuation Act.

Apply, stating age and experience, with testimonials, to the Medical Superintendent.

also

FOURTH ASSISTANT MEDICAL OFFICER—Lady—(Clinical Pathologist). Well-equipped laboratory and facilities given for research work. Salary commencing at £250 per annum, rising by annual increments of £25 to £350, with board, lodging, and laundry. Appointment subject to provisions of Asylums Officers' Superannuation Act.

Apply, stating age, with particulars as to experience in laboratory work, and testimonials, to the Medical Superintendent.

Cheshire Education Committee.

ASSISTANT SCHOOL MEDICAL OFFICER (Woman).

Applications are invited from qualified single women for a whole-time post as Assistant School Medical Officer, to reside at Altrincham.

Candidates must have had at least three years' practical experience in their profession and be not more than forty-five years of age.

Commencing salary £500, rising by £25 annually to £700 (less 5 per cent. for superannuation). Travelling expenses on county scale.

Forms of application, containing full particulars of appointment, may be obtained from the undersigned and must be received, duly completed, not later than the 1st February, 1939.

IAN MACKAY, M.B., Ch.B., School Medical Officer.

24, Nicholas-street, Chester.

Southend-on-Sea General Hospital.

250 Beds. 8 Residents.

Applications are invited for the post of

FIRST HOUSE SURGEON (Male).

Duties to commence on about 13th February, 1939. The appointment is for six months. Salary at the rate of £100 per annum, with board, residence, and laundry. Candidates must be registered Practitioners. The hospital is recognised by the Royal College of Surgeons in respect of this post.

Applications, together with copies of two recent testimonials, should be sent to the undersigned not later than 28th January.

P. H. CONSTABLE, Secretary.

Resident Surgical Officer required for

the PRINCESS MARGARET ROSE HOSPITAL FOR CRIPPLED CHILDREN, Fairmilehead, Edinburgh (125 Beds), with Major and Minor Clinics in the South Eastern area of Scotland, to commence duty on 1st April, 1939. Preference given to candidates with orthopædic experience. Initial honorarium at rate of £100 per annum, with board.

Apply before 31st January, with six copies of not more than four testimonials, to R. W. MARTIN, W.S., Secretary, P.M.R.H.C.C., 11, Coates-crescent, Edinburgh, from whom further information as to the appointment may be obtained.

The Royal Liverpool Children's

HOSPITAL, Myrtle-street, LIVERPOOL, 7.

The Committee invite applications from Graduates, with previous Hospital experience, for the appointment of RESIDENT CASUALTY OFFICER (Male). The appointment will be for a period of six months from 1st April, 1939. At the end of that time the holder of the post will be eligible to apply for re-election for a further term of office. Salary at the rate of £250 per annum.

Further particulars may be obtained from the Secretary, Royal Liverpool Children's Hospital, Myrtle-street, Liverpool, 7, to whom applications should be sent with copies of recent testimonials on or before Monday, 30th January, 1939.

The Royal Hospital, Wolverhampton.

(Incorporated under Charter.)

HOUSE SURGEON required for Fracture and Orthopædic Department. Duties to commence 1st March, 1939.

The Hospital contains 300 Beds, includes the usual special departments and is recognised by the various Examining Bodies for a part of the requisite attendance on Medical and Surgical Practice. Candidates must be registered under the Medical Acts, and unmarried.

The appointment is for six months. Salary at the rate of £100 per annum. Board, furnished rooms, and laundry provided.

Applications, with copies of testimonials, to be forwarded to the undersigned.

W. H. HARPER, House Governor.

Wolverhampton, 16th January, 1939.

NEW ZEALAND

UNIVERSITY OF OTAGO.

Applications are invited for the position of LECTURER IN BIOCHEMISTRY, Physiology Department, Otago University Medical School. Medical qualification desirable. Knowledge of Animal Physiology essential.

Salary £650 per annum (New Zealand currency). £70 sterling allowed towards cost of travelling expenses to Dunedin, New Zealand.

For further particulars apply to the High Commissioner for New Zealand, 415, Strand, London, W.C.2, by whom completed applications will be received up to 22nd March, 1939.

NEW ZEALAND

UNIVERSITY OF OTAGO MEDICAL SCHOOL.

Applications are invited for the position of PROFESSOR OF MEDICINE. Salary £2000 per annum. Further particulars are obtainable from the High Commissioner for New Zealand, 415, Strand, London, W.C.2, with whom applications close on March 22nd, 1939.

University of Birmingham.

FACULTY OF MEDICINE.

LECTURER IN BACTERIOLOGY.

Applications are invited for the post of Third Lecturer in Bacteriology and Assistant Bacteriologist in the Public Health Laboratory.

Commencing stipend at the rate of £350–£400 per annum.

Applications from Graduates of British Universities, who have had no previous laboratory or teaching experience, but who are desirous of taking up Bacteriology as a career, would be considered.

Three copies of applications, with three copies of not more then three testimonials, should be sent to the undersigned, from whom further particulars may be obtained.

The last day for receiving applications is January 31.

C. G. BURTON, Secretary.

The University, Edmund-street, Birmingham, 3,
January, 1939.

City and County of the City of Exeter.

DEPUTY MEDICAL OFFICER OF HEALTH AND ASSISTANT TUBERCULOSIS OFFICER.

Applications are invited for the appointment of Deputy Medical Officer of Health and Assistant Tuberculosis Officer for the City and County of the City of Exeter at a salary of £550 per annum, rising by four annual increments of £25 each to £650 per annum, together with a car allowance of £50 per annum. The appointment will be subject to deductions in accordance with the provisions of the Local Government and Other Officers' Superannuation Act, 1922, and the person appointed is required to live in a house provided near the City Isolation Hospital rent and rates free, and valued for the purposes of the Superannuation Act at £80 per annum.

The successful candidate will be required to pass a medical examination.

Candidates, whose age should not exceed forty-five years, must be registered Medical Practitioners (Male) of not less than three years' standing and possess the Diploma in Public Health or its equivalent, and must have special experience in the treatment of infectious diseases; experience in modern methods of the diagnosis and treatment of tuberculosis; and general public health experience.

Canvassing, either directly or indirectly, will disqualify.

Applications, endorsed "Deputy Medical Officer of Health," accompanied by copies of three recent testimonials, must be received by me not later than the first post on Friday, the 27th January, 1939.

Application forms and particulars of the appointment may be obtained from the undersigned.

C. J. NEWMAN, Town Clerk.

10, Southernhay West, Exeter, 9th January, 1939.

Burton-on-Trent General Infirmary.

Applications are invited for the position of CASUALTY OFFICER AND HOUSE PHYSICIAN. Salary at the rate of £150 per annum, with board, residence, and laundry.

Applications, giving age, qualifications, and nationality, together with copies of testimonials, to be sent to E. W. Thornley, Secretary.

County Mental Hospital, Lancaster.

Applications are invited for the post of ASSISTANT MEDICAL OFFICER (Female).

Candidates must be single and under thirty-five years of age. Commencing salary £550 per annum, rising to £600 after one year's satisfactory service, with further increases on promotion, subject to a deduction of 3 per cent. under the Asylums Officers' Superannuation Act, 1909. There are no emoluments.

The selected candidate will be required to live in the Hospital, and she will be provided with board, lodging, &c., for which a charge of £150 a year is made.

The possession of a Diploma in Psychological Medicine will entitle the Officer to an additional £50 per annum.

Applications, giving full particulars, with testimonials (copies only), should be forwarded to the Medical Superintendent on or before the 2nd February, 1939.

BARBADOS GENERAL HOSPITAL

Wanted, a duly qualified Medical Practitioner, Male, Single preferred, as HOUSE SURGEON AND ANÆSTHETIST (one of four House Surgeons) of The Barbados General Hospital (273 Beds). Experience in modern methods of Anæsthesia essential.

Salary £450 per annum, with quarters furnished for a single man, free water, lighting allowance, no local rates, Income Tax not exceeding 6d. in the pound.

The appointment is for three years subject to three months' notice on either side to terminate the engagement.

First-class passage out to Barbados direct will be paid by the Hospital Board for a full term of service, a proportionate part of which is to be refunded in case of service for a shorter period. First-class return passage to London direct from Barbados will be granted on satisfactory termination of full period of service.

Applications must be accompanied by a photograph, a recent medical certificate of physical fitness and recent professional and personal testimonials stating age and date of graduation, a recent certificate of proficiency in Administering modern Anæsthetics as Resident Anæsthetist of a Hospital of not less than 200 Beds, or of a Post-Graduate Course in Modern Anæsthesia at a recognised Medical School.

Canadian graduates must hold qualifications registrable in England.

Candidates holding a United States degree must be registered in the State of New York.

Applications will be closed on 28th February, 1939, and should be addressed to the Medical Superintendent, General Hospital, Barbados, B.W.I.

By Order,
J. WARD, Secretary.

Middlesbrough Education Committee.

APPOINTMENT OF WOMAN ASSISTANT SCHOOL MEDICAL OFFICER.

Applications are invited from duly qualified women for a position as ASSISTANT SCHOOL MEDICAL OFFICER in connexion with the medical inspection and treatment of schoolchildren, and such other duties as may be required by the Education Committee. The person appointed will be generally responsible to the School Medical Officer.

Commencing salary £500 per annum (provided the successful candidate has had not less than three years' post-graduate experience) rising by annual increments of £25 to £700 per annum. The Committee will take into account previous experience as an Assistant School Medical Officer in determining the amount of the commencing salary. The successful candidate will be required to devote her whole time to the duties of the office. The appointment will be subject to the provisions of the Local Government and Other Officers' Superannuation Act, 1922, and the successful candidate will be required to pass satisfactorily a medical examination. The appointment will be terminable by two calendar months' notice on either side.

Forms of application may be obtained on application to the Director of Education, Education Offices, Woodlands-road, Middlesbrough, to whom completed forms should be returned not later than Saturday, 4th February, 1939.

Canvassing in any form will disqualify.

PRESTON KITCHEN, Town Clerk.

Town Clerk's Office, Municipal Buildings, Middlesbrough.
7th January, 1939.

Lancashire County Council,

BIDDULPH GRANGE ORTHOPÆDIC HOSPITAL.

Applications are invited from duly qualified and Registered Medical Practitioners (unmarried) for the post of JUNIOR HOUSE SURGEON at the above Hospital, which contains 88 Beds.

Salary is at the rate of £200 per annum, together with board, residence, and laundry.

Preference will be given to candidates who have held resident hospital appointments and who are competent anæsthetists. The appointment will be for a period of six months in the first instance, and for a further six months at the option of the County Council, but will not be renewable after that time.

Applications, with copies of two recent testimonials, should be sent not later than the 27th January, 1939, to Dr. F. Hall, School Medical and Child Welfare Department, County Offices, Preston.

Duties to commence the 1st March, 1939.

GEORGE ETHERTON, Clerk of the County Council.

County Offices, Preston, 9th January, 1939.

Royal Manchester Children's Hospital,

PENDLEBURY, Near MANCHESTER.
(232 Beds.)

RESIDENT SURGICAL OFFICER.

Applications are invited for the post of Resident Surgical Officer. Salary £150 per annum. The appointment is for a period of six months commencing March 1st.

Candidates must be unmarried and duly registered. Previous hospital experience essential. Candidates holding, or working for, a higher surgical qualification preferred.

Applications, stating age and accompanied by copies of not more than three recent testimonials, to be sent to the undersigned not later than Thursday, 2nd February. Canvassing, directly or indirectly, may disqualify.

By order,
H. HEARDMAN, Secretary.

County Council of Durham.

EDUCATION DEPARTMENT.

ASSISTANT SCHOOL MEDICAL OFFICER.

The County Education Committee invite applications for the post of Assistant School Medical Officer (Man) to act under the School Medical Officer in connexion with the inspection of school-children and such other duties as may be required by the Education Committee.

Commencing salary £500 per annum (provided the candidate has had not less than three years' postgraduate experience), rising by annual increments of £25 to £700 per annum, together with travelling expenses according to the County Scale.

The successful candidate will be required to devote his whole time to the duties of the office and reside in or near the district to which he will be attached at a place to be approved by the Education Committee. The appointment will be subject to three calendar months' notice on either side, expiring on the last day of any calendar month. Applicants must have had experience in the work of school medical inspection and preference will be given to candidates who—

(a) Have had experience in the work of School Clinics.
(b) Have been accustomed to make reports on Mentally Defective, Physically Defective, Epileptic and other Defective Children.

The possession of a Diploma in Public Health is desirable, though not essential.

Canvassing, directly or indirectly, is prohibited and will disqualify.

A deduction will be made from the salary in accordance with the Local Government Superannuation Act, 1937, and the appointment will be subject to the candidate passing the medical examination in connexion therewith.

Forms of application, to be returned not later than Saturday, 4th February, 1939, may be obtained from the Director of Education, Shire Hall, Durham, on receipt of a stamped addressed foolscap envelope.

THOS. B. TILLEY, Director of Education.

Shire Hall, Durham, 13th January, 1939.

AMENDED ADVERTISEMENT.

County Borough of Middlesbrough.

ST. LUKE'S MENTAL HOSPITAL, GROVE HILL, MIDDLESBROUGH.

The Committee of Visitors invite applications for the appointment of ASSISTANT MEDICAL OFFICER AND DEPUTY MEDICAL SUPERINTENDENT (Male) for the above-mentioned Hospital.

Candidates must be fully qualified and duly registered, and preference will be given to one who has held a resident appointment in a General Hospital.

The age of applicants should not exceed thirty-five years.

Salary £550–£25–£650, rising by four annual increments, plus an extra payment of £50 per annum to holders of, or who may later obtain, the D.P.M. Unfurnished house on the Estate provided, rent and rates free (no further emoluments).

The appointment is whole time and subject to the provisions of the Asylums' Officers Superannuation Act, 1909. The appointment will be terminable by two months' notice on either side. The successful candidate will be required to undergo a medical examination.

Canvassing will disqualify.

Applications, accompanied by copies of three recent testimonials, should be sent to the undersigned not later than the 25th January, 1939, endorsed "Assistant Medical Officer and Deputy Medical Superintendent."

PRESTON KITCHEN,
Town Clerk and Clerk to the Committee of Visitors.

Town Clerk's Office, Middlesbrough, 11th January, 1939.

PRELIMINARY ADVERTISEMENT.

Walsall General Hospital.

The Committee are prepared to receive applications from men for the post of RESIDENT SURGICAL OFFICER. Candidates with Fellowship or Primary Fellowship preferred. Good surgical experience.

WALTER FRANCOMBE, House Governor.

16th January, 1939.

Birmingham United Hospital.

NEW CENTRE HOSPITAL, BIRMINGHAM.

FULL-TIME ASSISTANT TO THE RADIOLOGICAL DEPARTMENT.

Applications are invited for the above post.

The appointment in the first instance will be made for one year, the holder being eligible for reappointment annually for a further two years, when he will become eligible to be considered for appointment to the Staff as an Assistant Radiologist.

Salary £400 to £450 per annum, according to experience. Full facilities will be given for research work.

Candidates must be Registered Medical Practitioners and should possess a Diploma in Radiology.

Applications should be sent to the undersigned (from whom all further particulars can be obtained) stating age, experience, and qualifications, with copies of recent testimonials, not later than February 10th.

C. HURFORD, Secretary,
Birmingham United Hospital.

The Centre Hospital, Edgbaston, Birmingham, 15.

Hertfordshire County Council.

WARE PARK SANATORIUM.

ASSISTANT MEDICAL OFFICER.

Applications are invited for the appointment of a Male Assistant Medical Officer at the County Sanatorium, Ware Park, near Ware. Age not less than twenty-five and not more than forty years. Applicants must not be married men, and should be qualified Medical Practitioners with hospital experience, and preference will be given to those who have had experience of the institutional treatment of Tuberculosis. The appointment is for one year. Salary £300 per annum, with furnished rooms rent free, together with board, washing, light, fuel, and service.

Forms of application, with particulars, can be obtained from the Clerk of the County Council, Clerk of the Peace Office, Hertford, and must be returned duly completed before the 2nd February, 1939.

ELTON LONGMORE, Clerk of the County Council.

Clerk of the Peace Office, Hertford, January, 1939.

County of Derby.

APPOINTMENT OF DEPUTY COUNTY MEDICAL OFFICER OF HEALTH.

Applications are invited from registered Medical Practitioners (Male) for the appointment of Deputy County Medical Officer of Health. Candidates must possess a Diploma in Public Health and must have had administrative experience in public health.

Candidates must not be over forty-five years of age, and the officer appointed must reside in the county and devote his whole time to the work.

The appointment, which will be terminable by three months' notice on either side, will be an established post for the purposes of the Local Government and Other Officers' Superannuation Act, 1922, and the successful candidate will be required to pass a medical examination.

Salary £840 per annum, rising by annual increments of £30 to £960 per annum.

Applications, stating age, qualifications, and experience, together with copies of not more than three recent testimonials, should be sent to the undersigned not later than 4th February, 1939.

W. M. ASH, County Medical Officer.

New County Offices, Derby, 11th January, 1939.

Chorley and District Hospital, Chorley,

LANCASHIRE.
(Voluntary General Hospital with 75 Beds.)

HOUSE SURGEON.

Applications are invited for the post of House Surgeon to commence duties early in May, 1939.

The appointment will be for six months, but the appointed candidate will be eligible for reappointment.

The salary is £150 per annum, with board, residence, and laundry.

Applications, with copies of three recent testimonials, to be sent to the undersigned not later than Saturday, 25th February, 1939.

C. H. SPENCE, Secretary-Superintendent.

The Christie Hospital and Holt Radium

INSTITUTE,
WITHINGTON, MANCHESTER, 20.

Applications are invited for the post of HONORARY PHYSICIAN. Candidates should be a Member of one of the Royal Colleges of Physicians of the United Kingdom or hold a degree of M.D. granted by a University recognised by the General Medical Council.

The Candidate appointed will be in charge of the medical patients in the Hospital and will conduct a weekly out-patients' clinic.

Applications to be forwarded to the undersigned.

P. N. GLASS, Superintendent.

Warneford General Hospital,

LEAMINGTON SPA. (164 Beds.)

RESIDENT CASUALTY OFFICER AND HOUSE SURGEON to one of the Hon. Surgeons required by 19th February, 1939.

Six months' appointment. Salary £150 per annum, with board and laundry.

Applications from qualified registered Medical Practitioners (single men only) should be sent together with three recent testimonials to the undersigned by Wednesday, 1st February, 1939.

EDWARD L. WIRGMAN, House Governor and Secretary.

The Royal Portsmouth Hospital,

PORTSMOUTH.
(Six Resident Medical Officers.)

Applications are invited for the post of CASUALTY OFFICER (Male) qualified. Salary at the rate of £130 per annum, with board, &c. To commence 12th February, 1939.

Six months' appointment. Eligible on completion of term for extension or other resident posts.

Applications, stating age, nationality, &c., and copies of three recent testimonials, to be sent to the undersigned on or before 1st February, 1939, from whom all particulars can be obtained.

B. WAGSTAFF, Secretary.

City of Liverpool.

WALTON HOSPITAL .. .. (1858 Beds).
SMITHDOWN ROAD HOSPITAL (1220 „).
MILL ROAD INFIRMARY .. (762 „).

RESIDENT ASSISTANT MEDICAL OFFICERS.

Applications are invited for the above appointments which fall vacant on 1st April, 1939.

The appointments are for a period of one year at a salary of £200 per annum, together with the usual residential allowances. Canvassing will be deemed a disqualification.

Applications to be made on forms obtainable from the Medical Officer of Health, Municipal Annexe, Liverpool, 2, to be endorsed "Resident Assistant Medical Officer," and returned to the undersigned so as to be received not later than 31st January, 1939.

W. H. BAINES, Town Clerk.

Municipal Buildings, Dale-street, Liverpool, 2,
January, 1939.

City of Liverpool.

ALDER HEY CHILDREN'S HOSPITAL. (952 Beds.)

RESIDENT ASSISTANT MEDICAL OFFICERS.
(Male and Female).

Applications are invited for the above appointments which fall vacant on 1st April, 1939. The appointments are for a period of six months in the first instance and may be renewed for a further similar period at the option of the Council. Salary £200 per annum, together with the usual residential allowances. Canvassing will be deemed disqualification.

There is a large Ear, Nose, and Throat Department in the Hospital and one of the selected candidates will be given the opportunity of working in this special branch.

Applications to be made on forms obtainable from the Medical Officer of Health, Municipal Annexe, Liverpool, to be endorsed "Resident Assistant Medical Officer," and returned to the undersigned so as to be received not later than 31st January, 1939.

W. H. BAINES, Town Clerk.

Municipal Buildings, Dale-street, Liverpool, 2,
January, 1939.

County Borough of Rotherham.

MEDICAL SERVICES COMMITTEE.

ASSISTANT RESIDENT MEDICAL OFFICER.

The Medical Services Committee invite applications for the position of Assistant Resident Medical Officer at their MUNICIPAL GENERAL HOSPITAL, Rotherham, for a period of twelve months. Preference will be given to those candidates who have held a resident appointment in a General Hospital, or a Municipal Hospital, for a period of at least six months.

The Hospital has approximately 350 Acute Beds, and 5 Chronic Beds. There is an associated district service with Out-patient departments. There are four Assistant Resident Med cal Officers and one Deputy Medical Superintendent and Obstetric Officer. The work that will be required of this medical officer will be chiefly medical, and there will be district visiting. The salary is £350 per annum, together with the usual residential emoluments.

The appointment is subject to the provisions of the Local Government and Other Officers' Superannuation Act. The successful candidate will be required to pass a medical examination. The person appointed will be required to act under the general direction of the Medical Superintendent, and in any sphere which the Council may from time to time direct.

Forms of application may be obtained from the Medical Officer of Health, Municipal Offices, Rotherham, and must be returned to the undersigned endorsed "Assistant Resident Medical Officer, Municipal General Hospital," not later than NOON on Wednesday, 1st February, 1939.

CHAS. L. DES FORGES, Town Clerk.

Municipal Offices, Rotherham.

Ancoats Hospital, Manchester, 4.

RADIOLOGICAL OFFICER, Lady or Gentleman, whole-time appointment—non-resident—no private work allowed. Salary £400 per annum. Luncheon and tea provided. The appointment is for twelve months and is renewable. Candidates must hold the D.M.R.E. diploma.

Applications, stating age and particulars of qualifications and experience, to be forwarded to the undersigned on or before the 1st February, together with copies of three recent testimonials.

By Order of the Board,
HERBERT J. DAFFORNE,
General Superintendent and Secretary.

Royal Alexandra Hospital for Sick

CHILDREN, BRIGHTON.
(100 Beds.)

HOUSE PHYSICIAN (Male) required. Salary at the rate of £150 per annum, with board, lodging, and laundry. No canvassing allowed. The Hospital is recognised for the D.C.H. Diploma and the M.D. Examination, Branch 1. To take up duties in February.

Applications in writing, accompanied by testimonials should be sent to Mr. PERCY F. SPOONER, Secretary, Dyke-road, Brighton.

Royal Alexandra Hospital for Sick

CHILDREN, DYKE-ROAD, BRIGHTON.

APPOINTMENT OF AN HONORARY PHYSICIAN.

NOTICE IS HEREBY GIVEN that the ELECTION COMMITTEE will meet on Friday, the 3rd March at 3 P.M., and it is hereby convened for that date for the purpose of electing an Honorary Physician.

All candidates are required to transmit their applications with their qualifications and testimonials under cover to the undersigned not later than Saturday, the 11th February, and must hold themselves in readiness to attend the Meeting of the Committee on the day of election.

The Committee does not bind itself to appoint any candidate. Every candidate will have an opportunity of appearing before the Election Committee and may send a copy of testimonials to the Members of the Committee of Election not more than ten days before the Meeting at which such election is to take place.

Further information can be obtained if desired by application to the Secretary, PERCY F. SPOONER, at the Hospital.

14th January, 1939.

County Council of Essex and

CORPORATION OF CHINGFORD.

APPOINTMENTS OF ASSISTANT COUNTY MEDICAL OFFICER AND MEDICAL OFFICER OF HEALTH.

Applications are invited for the above appointments.

The minimum commencing salary as Assistant County Medical Officer will be at the rate of £400 per annum, and the minimum commencing salary as Medical Officer of Health will be at the rate of £400 per annum. The total salary of the person appointed will rise, subject to satisfactory service, by annual increments of £25 to a maximum of £900 per annum. An allowance at the rate of £78 per annum in respect of travelling will also be made to the successful candidate. The amounts of any increments in salary and the travelling allowance will be shared equally by the respective authorities.

The person appointed will be required to pass a medical examination, to contribute to the appropriate Superannuation Funds established by the respective authorities, and to reside in Chingford.

Applicants must be duly qualified Medical Men, with experience in Public Health duties, and hold a Diploma of Public Health.

Applicants should not be over forty-five years of age, but a candidate's period of service in the late war will be deducted.

Applications must be made on the prescribed form, obtainable from the undersigned, E. S. Holcroft, accompanied by copies of not more than three recent testimonials, which will not be returned, and should be delivered at the County Hall, Chelmsford, not later than 10 A.M. on Monday, the 6th day of February, 1939.

E. S. HOLCROFT, Clerk of the County Council.
C. HEYWORTH, Town Clerk of Chingford.

County Hall, Chelmsford, 16th January, 1939.

Middlesex County Council.

CENTRAL MIDDLESEX COUNTY HOSPITAL,
Acton-lane, Willesden, N.W.10.

Non-resident (Grade II) PHYSICIAN required—registered Medical Practitioner (Man or Woman) of high qualifications and professional attainments with Diploma in Psychological Medicine; previous experience wholly or chiefly practice of clinical medicine.

Senior appointment in Council's general hospital service (subject to three months' notice). Duties include teaching of postgraduate students if required and other duties as directed. Inclusive salary £650–£50–£1000 per annum (any fees to be paid in). Residence within easy access of hospital essential.† Pensionable staff, subject to medical examination. Applications by 4th February, 1939.

REDHILL COUNTY HOSPITAL,
Edgware, Middlesex.

Resident CASUALTY MEDICAL OFFICER required. Must be registered Medical Practitioner, with considerable all-round experience and as House Physician and House Surgeon in general hospital.

Duties include dealing with casualties and admissions to hospital. Appointment, subject to medical examination, is primarily for six months, but may be extended further six months. Salary £350 per annum, with board, lodging, and laundry.† Applications by 28th January, 1939.

† Whole-time duties under supervision of Medical Superintendent.

Applications, stating date of birth, qualifications, and experience with copies of not more than three recent testimonials to the undersigned. Envelopes must be endorsed "Physician—B.3" or "Casualty Medical Officer—B.3." No application forms. Canvassing, directly or indirectly disqualifies.

C. W. RADCLIFFE, Clerk of the County Council.

Guildhall, Westminster, S.W.1.

Margate and District General Hospital.

(100 Beds.)

Applications are invited for the post of RESIDENT MEDICAL OFFICER (Male).

Salary £150 per annum, with board and laundry.

Applications, accompanied by copies of testimonials, should be addressed to the Secretary at the Hospital as early as possible.

Royal Hospital, Richmond, Surrey.

Applications are invited for the following post, which is now vacant :—

JUNIOR HOUSE SURGEON (Male).

£100 per annum. Board, furnished apartment, and laundry. Candidates must be fully qualified, registered, and single. Application to be made at once to the undersigned.

G. M. EDEN, Secretary-Superintendent.

Borough of Slough.

ETON URBAN DISTRICT.
ETON RURAL DISTRICT.
ETON JOINT HOSPITAL BOARD.

JOINT APPOINTMENT OF DEPUTY MEDICAL OFFICER OF HEALTH AND DEPUTY MEDICAL SUPERINTENDENT.

Applications are invited for the appointment of Deputy Medical Officer of Health for the combined areas of the Borough of Slough and the Urban and Rural Districts of Eton and Deputy Medical Superintendent of the Eton Joint Isolation Hospital (45 Beds).

Applicants must be duly qualified and registered Medical Practitioners (Male) not exceeding forty years of age. Possession of a Diploma or Degree in Public Health is essential. Preference will be given to candidates possessing previous experience in general public health work, infectious diseases and Bacteriology.

The salary will be at the rate of £500 per annum, rising, subject to satisfactory service, by annual increments of £25 to £700, together with a travelling allowance (for motor car) of £75 per annum, but in fixing the commencing salary, regard will be paid to previous Local Authority service.

The post will be superannuable, and the successful applicant will be required to pass satisfactorily a medical examination as to his physical fitness.

Applications, on a form obtainable from the undersigned, together with copies of three recent testimonials, should be addressed to me and delivered at the Town Hall, Slough, not later than Saturday, 4th February, 1939.

F. R. DUXBURY, Town Clerk.

Town Hall, Slough, 20th January, 1939.

Shenley Hospital for Nervous and

MENTAL ILLNESS (MIDDLESEX COUNTY COUNCIL), SHENLEY, Nr. ST. ALBANS, HERTS.

ASSISTANT MEDICAL OFFICER (Fifth Assistant) required. Total value of salary and emoluments £485, rising to £575 per annum. An additional £50 per annum will be paid if the officer appointed obtains a diploma in Psychological Medicine.

Applications, accompanied by copies of testimonials, should reach the Medical Superintendent at the Hospital before 28th January, 1939.

York County Hospital.

(204 Beds.)

Applications are invited for the post of HOUSE PHYSICIAN. Salary £150 per annum, with board, residence, and laundry.

Applications, stating age and previous experience, with copies of three recent testimonials, to be sent to the undersigned not later than Wednesday, 1st February, 1939.

York County Hospital. J. R. MACKRILL, Secretary.

City and Royal Burgh of Edinburgh.

EASTERN AND NORTHERN GENERAL HOSPITALS.

There are several vacancies for RESIDENT HOUSE PHYSICIANS at the above hospitals for the six months' period commencing April 1st, 1939. Salary at the rate of £100 per annum, with board, lodging, &c.

Applications (from Male registered Medical Practitioners) should be sent as soon as possible to the Medical Officer of Health, Johnston-terrace, Edinburgh.

West Kent General Hospital

(Incorporated),
MAIDSTONE. (135 Beds.)

Applications are invited for the post of HOUSE SURGEON, who must be a Male of British nationality and unmarried.

Salary at the rate of £175 per annum, with board, apartments, and laundry.

Candidates must possess registered qualifications.

Applications, stating qualifications and experience, together with copies of testimonials, should be sent to the undersigned not later than the 2nd February, 1939. The successful candidate will be required to take up residence on 11th February, 1939.

EDWARD J. GREGG, House Governor and Secretary.

The Royal Army Medical Corps

ASSOCIATION, 85, Eccleston-square, S.W.1 (Telephone : Victoria 2722), supplies qualified Dispensers, Book-keepers, Laboratory Assistants, Sanitary Assistants, Male Nurses, Mental and Special Treatment Orderlies, Dental Clerk Orderlies, Porters, Caretakers, &c., without charge to respective employers.

Typewriting.—Specialists in Typing

Medical and Scientific Papers, Lectures, Theses, and Books. Highest recommendations. Shorthand typists always available. Proof-reading, indexing. Translations in all European languages.—Margaret Watson, Ltd., 16, Palace Chambers, Bridge-street, S.W.1. WHItehall 3838.

Wanted, Male Assistant. R.C. pre-

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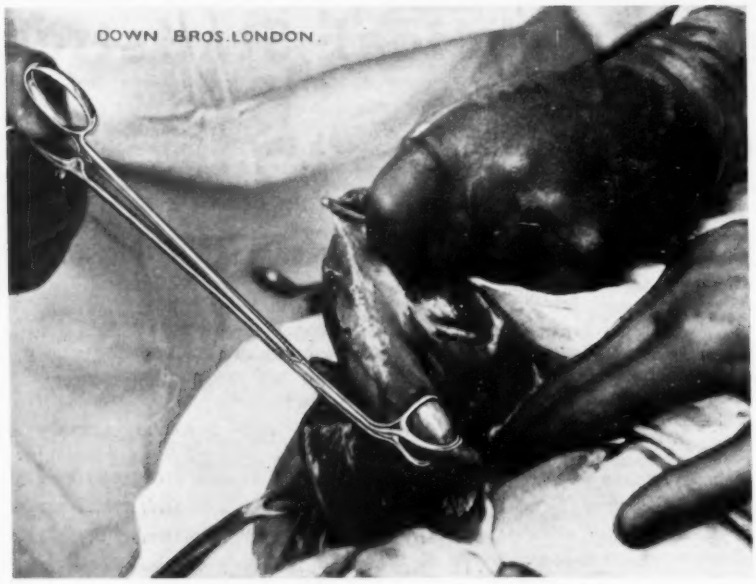

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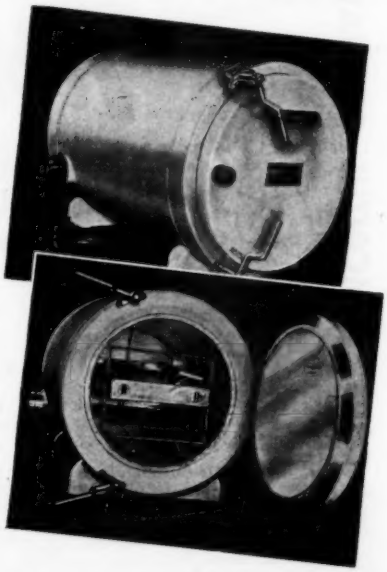

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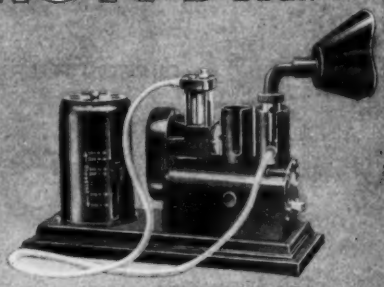

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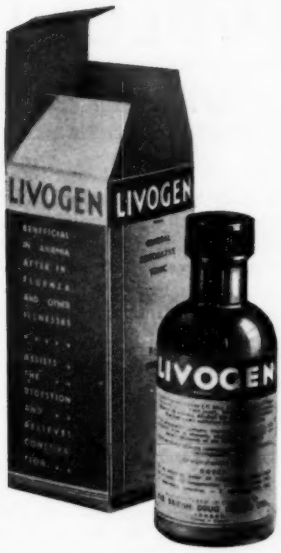

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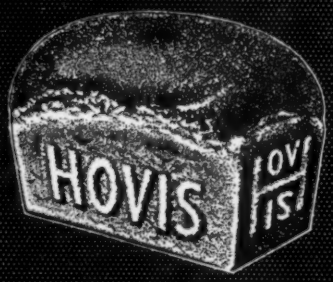

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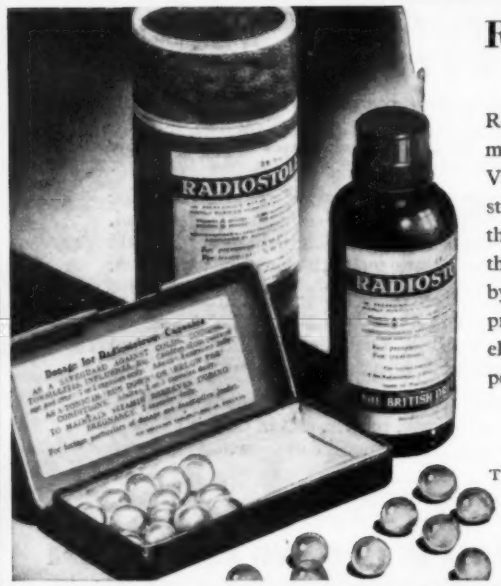

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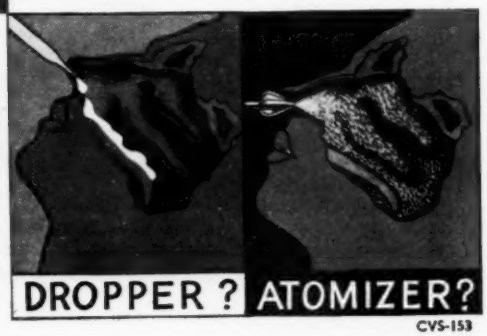

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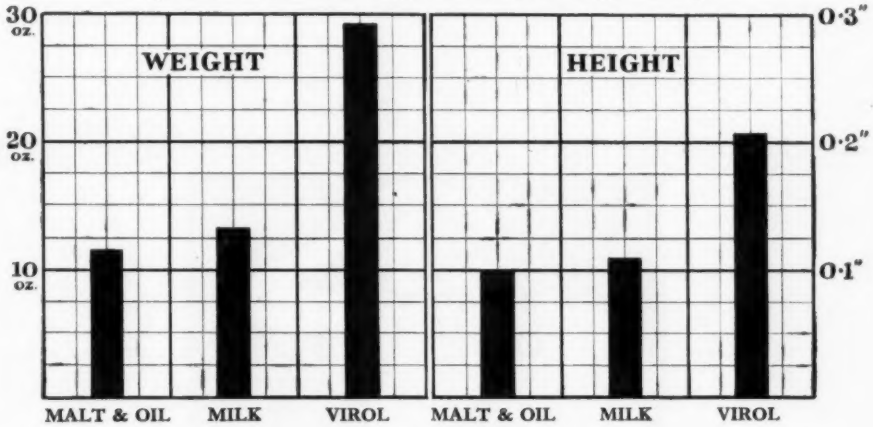

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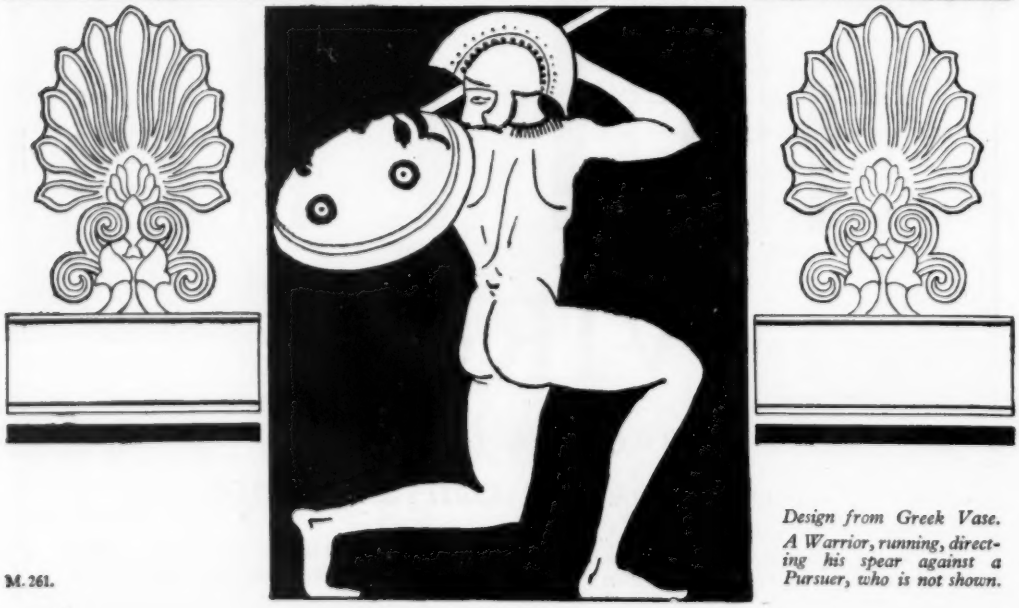


Design from Greek Vase.
A Warrior, running, directing his spear against a Pursuer, who is not shown.

M. 261.

COD LIVER OIL DOSAGE AND VITAMIN CONTENT —THE OFFICIAL RULING

Many practitioners have found that their patients still believe it necessary to take large doses of cod liver oil, and in consequence resort to other liver oils of uncertain origin and widely varying vitamin content. Reference, however, to the latest Addendum (1936) of the British Pharmacopœia shows that the standard dosage for cod liver oil is very much smaller than conventionally supposed and, moreover, that a definite vitamin content and origin are specified.

The ruling on vitamin content is that each gramme of cod liver oil shall contain not less than 600 International Units of Vitamin A and not less than 85 International Units of Vitamin D. Given this content, the minimum dose of cod liver oil is fixed at 15 minims (a quarter teaspoonful) three times a day.

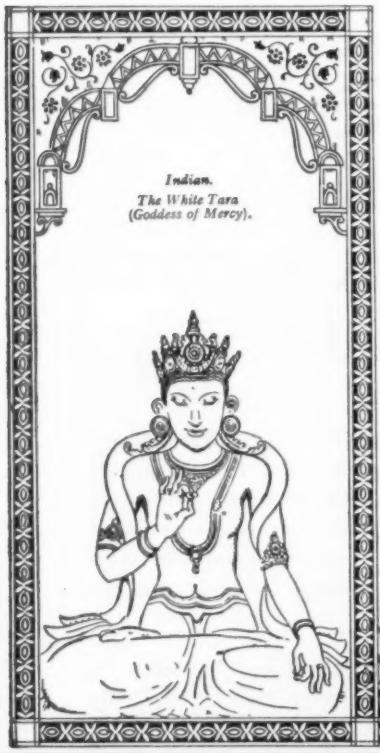
The advantages of being able to prescribe a cod liver oil which is guaranteed to conform to this ruling of the British Pharmacopœia are obvious. The smaller dose is readily acceptable by the patient, which fact makes it unnecessary to resort to other liver oils whose vitamin contents are uncertain both as to origin and efficiency and which have none of the proved food values of Cod Liver Oil.

'SevenSeaS' Cod Liver Oil is guaranteed to conform to the British Pharmacopœia requirements, and it has the additional advantage of being made from absolutely *fresh* livers. The small dose of Cod Liver Oil now needed and the pleasant taste of 'SevenSeaS' Cod Liver Oil arise from the fact that 'SevenSeaS' trawlers are equipped to render the oil on board, immediately the fish are caught. This is possible only with cods' livers, owing to their high percentage of oil. It cannot be done with the livers of other fish.

In the case of 'SevenSeaS' High Potency Oil, the dosage is reduced to a matter of drops only, for this oil has a guaranteed vitamin content of four times British Pharmacopœia standard. It is not concentrated or fortified in any way, but is obtained simply by selection from fresh cod livers with a naturally high vitamin content. This High Potency Oil should be of particular interest to practitioners wishing to prescribe for patients who cannot assimilate fat or have a tendency towards acidosis.

All 'SevenSeaS' oil is thoroughly tested before being issued to the public. It is prepared and packed in strict conformity with British Pharmacopœia requirements. Samples of the High Potency Oil, the Standard Oil, and the High Potency Oil in capsules will be sent on request.

BRITISH COD LIVER OIL PRODUCERS (HULL) LTD. · ST. ANDREW'S DOCK HULL · ENGLAND



"ALOCOL"

Colloidal Hydroxide of Aluminium

Improved Antacid Therapy

SODIUM BICARBONATE, bismuth salts and other time-honoured antacids having each proved to possess individual disadvantages, an agent such as "Alocol" which combines the best therapeutic features of these with intrinsic merits of its own, must be of interest to the physician.

"Alocol" is a powerful antacid agent which forms with the stomach contents a colloidal jelly with the power of adsorbing free hydrochloric acid, thus fixing it and eliminating it from the system. It has a remarkably soothing effect on the inflamed or irritated gastric mucosa and is, therefore, rapidly effective in relieving pain. Being non-absorbable "Alocol" is free from any risk of "alkalosis."

"Alocol" can be prescribed with confidence in all cases where alkaline therapy is indicated. Issued in tablet and powder form.

Complete chemical history of "Alocol," with convincing clinical reports and supply for trial sent free to physicians on request.

A. WANDER, LTD., Manufacturing Chemists,
184, Queen's Gate, London, S.W.7.
***Works:** KING'S LANGLEY, HERTFORDSHIRE.* M257

ALASIL

Safe Salicylate Therapy

THE popularity of acetyl-salicylic acid is undoubtedly due to the fact that it is one of the safest and most effective non-narcotic analgesics available. Too often, however, its use has been discarded by the physician on account of its tendency to irritate the stomach and because entirely pure preparations are not always available.

"Alasil" provides the beneficial therapeutic effects of pure acetyl-salicylic acid in such a form that it is acceptable even by disordered digestions. This tolerability is due to the fact that it combines calcium acetyl-salicylate—the least irritating salicylate compound—with "Alocol," a potent gastric sedative and antacid.

Since "Alasil" is better tolerated than acetyl-salicylic acid its use can be pushed or prolonged to a much greater extent than the latter. "Alasil" is, therefore, an analgesic, antipyretic, and anti-rheumatic, which can be employed with complete confidence in all the many conditions in which such an agent is indicated.

A supply for clinical trial with full descriptive literature sent free on request:

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Depend upon it . . . . .

Welfare and sick-room experience amply demonstrates the fundamental importance of regularity of bowel evacuation particularly for children during their growth and development. In this connection the choice of a laxative is obviously of first importance.

●

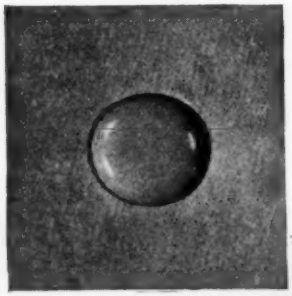
'California Syrup of Figs' offers marked advantages over the harsher mineral and synthetic drugs. Skilfully prepared from selected figs and sennas, it effects thorough evacuation without griping or discomfort. Moreover it has no exhausting effect on the alimentary system and is completely safe and dependable in action.

●

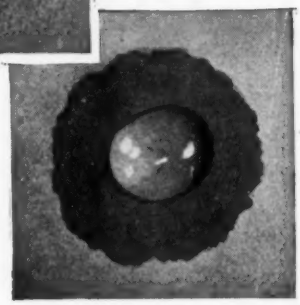
'California Syrup of Figs' may confidently be recommended as the routine laxative for children of all ages. Being pleasantly flavoured it is accepted readily by the most fastidious patient.

'California Syrup of Figs'

Samples will gladly be supplied on application to :—
PROPRIETARY AGENCIES, LTD.
179, Acton Vale, London, W.3



A Triumph of Emulsification



THE OILY RING AROUND THIS DROP TELLS THE STORY

The ring around the drop tells the story. A drop of Agarol on blotting paper holds firmly together. Try this with a poor emulsion and you will soon see the mineral oil being taken up by the blotting paper, forming a greasy ring around the drop.

For dependable efficacy in the treatment of constipation and allied disorders Agarol — mineral oil, agar-agar and phenolphthalein emulsion — has attained a reputation all its own.

Only the finest and purest ingredients are used in Agarol. Its exceptional palatability, secured without artificial flavouring, renders it acceptable to both children and adults. Agarol contains no alcohol and no alkali and, being devoid of sugar, is particularly suited to diabetic cases.

Agarol

BRAND COMPOUND

FOR CONSTIPATION

Supplied in bottles containing 4½, 7½ and 17 ounces.

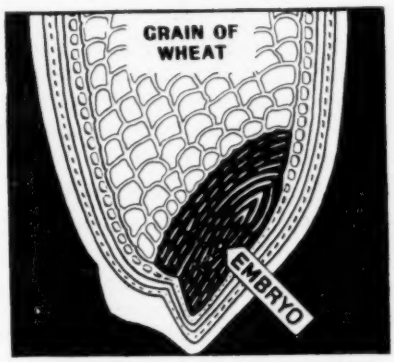
Agarol is not advertised to the public.

William R. Warner & Co. Ltd., Power Road, Chiswick, London, W.4.

CAUSE and EFFECT

Bemax puts back what modern food refining takes away

Vitamin B content of modern foods has been heavily depleted by changed methods of milling cereals. The picturesque Windmill gave us the full wheat grain, including the vitamin-laden embryo which is eliminated from the 'refined' staples of to-day.



The embryo or 'germ' at the base of the wheat grain is the richest natural food source of Vitamin B known. Bemax is prepared from specially selected wheat 'germs.' In prescribing it you thus restore Vitamin B to your patients' diet in the most natural form.

Dietary deficiency of Vitamin B is now a recognised cause not only of common constipation, but of poor growth and appetite, lassitude and nervous debility. Various investigators have shown that even the diet of the well-fed is frequently lacking in Vitamin B.

One ounce of Bemax provides 400 International Units of Vitamin B_1. This quantity is tested by biological assay of every day's output. A tablespoonful of Bemax with breakfast adds approximately 200 International Units to the daily diet, but larger quantities can be prescribed where necessary.

The facts outlined above are amplified in a Booklet, "The Malnutrition Question," copy of which, with clinical sample of Bemax, will gladly be sent on request. Vitamins Ltd. (The Bemax Laboratories), (Dept. L.69), Upper Mall, Hammersmith, London, W.6.

Remarkable penetrative power is an important antiseptic asset of Milton

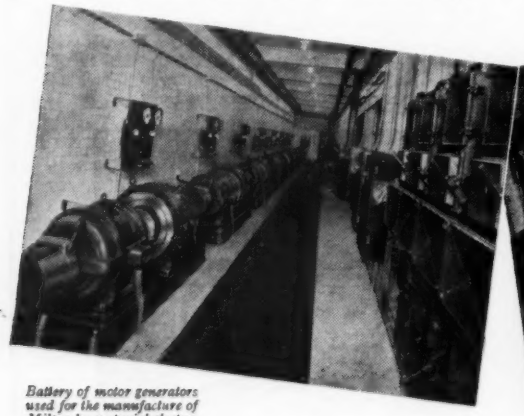
Many antiseptics react excellently in test-tube experiments and in simple surface sterilisations, but their value to humanity is largely nullified by an inability to penetrate living tissues, in which the war is really being waged.

This limitation does not apply, however, to the non-caustic hypochlorite known commercially as Milton.

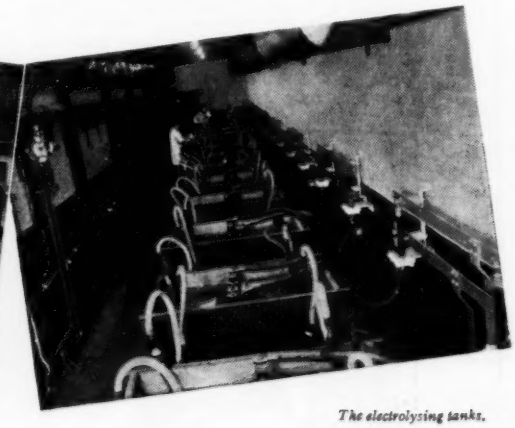
In Milton the active agent, nascent oxygen, is loosely combined with the necessary salts, in due proportion, on the principles subsequently laid down by Carrel and Dakin, so that it may be readily released where and when it is required.

This decomposition of Milton in the living tissues leaves practically nothing more alien and disturbing to their life than sodium chloride, the necessary saline constituent of them all. Thus nothing remains for the living tissues, unhurt by the process, but to dispose of the remains of the dead germs.

Further, Milton is standardised and stabilised. Its penetrative power is, at dilution 1 : 10, twice that of Dakin's Fluid in identical dilution.



Battery of motor generators used for the manufacture of Milton by a special electrolytic process.



The electrolysing tanks.

INDICATIONS

GARGLING.	As a prophylactic measure or as routine treatment of infection.
CATARRH.	A solution not exceeding 5% is most efficacious when applied by spraying.
DOUCHING.	Milton is alkaline, deodorant, germicidal, miscible with mucus and pus; harmless to delicate internal membranes.
WOUNDS, CUTS, SCALDS.	The hypochlorite characteristics of Milton are invaluable for cleansing, sterilising and dressing.

MILTON

THE SAFE ANTISEPTIC FOR USE IN AND ON THE HUMAN BODY

Members of the Medical Profession are invited to write to Research Dept., Milton Proprietary Ltd., John Milton House, London, N.7, for free professional sample bottle of Milton and informative literature and copies of independent laboratory reports . . . or to arrange a visit to John Milton House.

For a lower expectancy of serum disease—

DIPHTHERIA ANTITOXIN

GLOBULIN *Lederle* MODIFIED

WHETHER THE EARLY ADMINISTRATION of a large therapeutic dose of diphtheria antitoxin—universally accepted as the correct procedure in the treatment of Diphtheria—is indicated, or whether the smaller prophylactic dose of antitoxin is to be used, antitoxin for either purpose should be highly potent and as free as possible from qualities that may give troublesome reactions.

Troublesome reactions are caused by qualities possessed by horse-serum proteins retained with the antitoxin in the finished preparation.

"Globulin-Modified Antitoxins *Lederle*" contain only about one-half as much protein as antitoxins refined from the same serum by the older "salting-out" methods.

The proteins retained with antitoxins "Globulin Modified" are to a large degree allergenically modified by the digestive process so that many persons ordinarily likely to develop serum disease from unaltered serum proteins may be given usual doses of "Globulin Modified" antitoxins without experiencing reactions of importance.

"DIPHTHERIA ANTITOXIN—*Globulin-Modified Lederle*"

Packages: 1, 5, 10, 20 and 40 thousand units in syringes.
1, 4, 8, 10, 20 and 40 thousand units in vials.

Other Globulin-Modified Lederle Antitoxins are available for ERYSIPELAS, GAS GANGRENE, SCARLET FEVER, TETANUS and TETANUS-GAS GANGRENE.

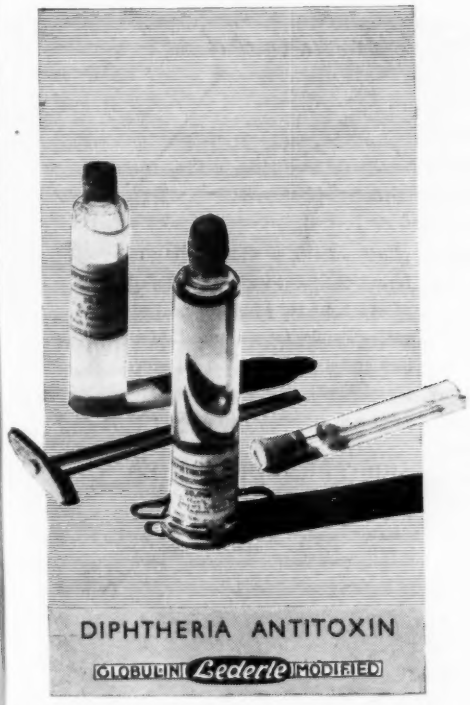
A Product of **Lederle** LABORATORIES, Inc., NEW YORK

Distributed in England by

Chas. F. Thackray LTD

The Old Medical School, Leeds. Telegrams and Cables "Aseptic Leeds." Telephone 20085 (3 lines). 252 Regent Street, London, W.1. Telephone, Telegrams and Cables "Regent 1884 London."

Agents for Eire WILCOX JOZEAU & CO., 19 Temple Bar, Dublin



ONE·HALF

the dosage
the quantity of drug to be eliminated

Administered orally, rectally or, in emergencies, intravenously, Nembutal exerts an extremely rapid but brief hypnotic and a pronounced sedative action from a dosage only about one-half that required with most other powerful barbiturates. This small dosage reduces the recovery period also by about one-half and, by lessening the amount of the drug to be eliminated, makes Nembutal, clinically, one of the safest of the barbiturates. • Safety, rapidity and brevity of action recommend Nembutal for use not only as a pre-anæsthetic sedative in major and minor surgery, but also in the treatment of insomnia, hysteria, sea-sickness, nausea from any cause, eclampsia, delirium tremens, convulsions from strychnine or other poisoning and in obstetrics, with or without morphine and scopolamine. Nembutal has also been used with much success as a supplement to morphine in controlling the pain of early cancer. • Nembutal is available through pharmacies in a wide variety of forms, the most widely employed of which are the ½-grain and 1½-grain capsules for oral use. Literature and a professional trial sample of Nembutal 1½-grain Capsules will be sent upon request.

ABBOTT LABORATORIES
(*ENGLAND*) LIMITED
Wadsworth Road, Perivale, Middlesex
Montreal Sydney Johannesburg Bombay
Shanghai New York Chicago Mexico City
Havana Rio de Janeiro Buenos Aires Manila

NEMBUTAL

BRAND OF PENTOBARBITAL SODIUM

SEDATIVE • HYPNOTIC

Send free trial sample of Nembutal 1½-grain Capsules to

NAME _____

ADDRESS _____

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'COSYLAN'

The Original

SYRUP COCILLANA COMPOUND

(P., D. & CO.)

SYRUP COCILLANA COMPOUND (COSYLAN) P., D. & Co. has abundantly justified itself as an efficient remedy for the relief of an irritating cough and, in fact, in any condition caused by bronchial irritation in which the cough is excessive and the secretion and expectoration scanty.

Cocillana is an expectorant of the ipecacuanha type, but it is superior to ipecacuanha because it relaxes the dry congested bronchial mucosa into a freely secreting membrane without even a suggestion of nausea or vomiting since it has a selective affinity for the mucous glands of the bronchi and is excreted through the respiratory tract.

The other ingredients are so blended with cocillana as to enhance its sedative expectorant action, to allay irritation, to quiet excessive cough and to alleviate pain and the "raw" sensation incident to the stage of congestion in bronchial and laryngeal inflammations.

Because of the success of the original product several imitations have appeared on the market. Manufacturers have taken advantage of the fact that "Syrup Cocillana Compound" is not a trade-marked name. It is a fact, however, that when physicians prescribe it they want the original, made by Parke, Davis & Co., and for this reason we have registered the name "Cosylan."

Formula

Each fluid drachm contains:

Tinct. Cocillana ...	5 mins.
Tinct. Euphorb. Pilulif.	15 mins.
Syrup Wild Lettuce ...	15 mins.
Fluid Extract of Squill	$^1/_4$ min.
Fluid Extract of Senega	$^1/_4$ min.
Tartarated Antimony	$^1/_{194}$ gr.
Cascarin (P., D. & Co.)	1 gr.
Menthol...	$^1/_{100}$ gr.
Ethylmorph. Hydrochlor	$^3/_{32}$ gr.

Dosage

The adult dose is half to one teaspoonful, preferably undiluted, to be swallowed slowly three or four times daily.

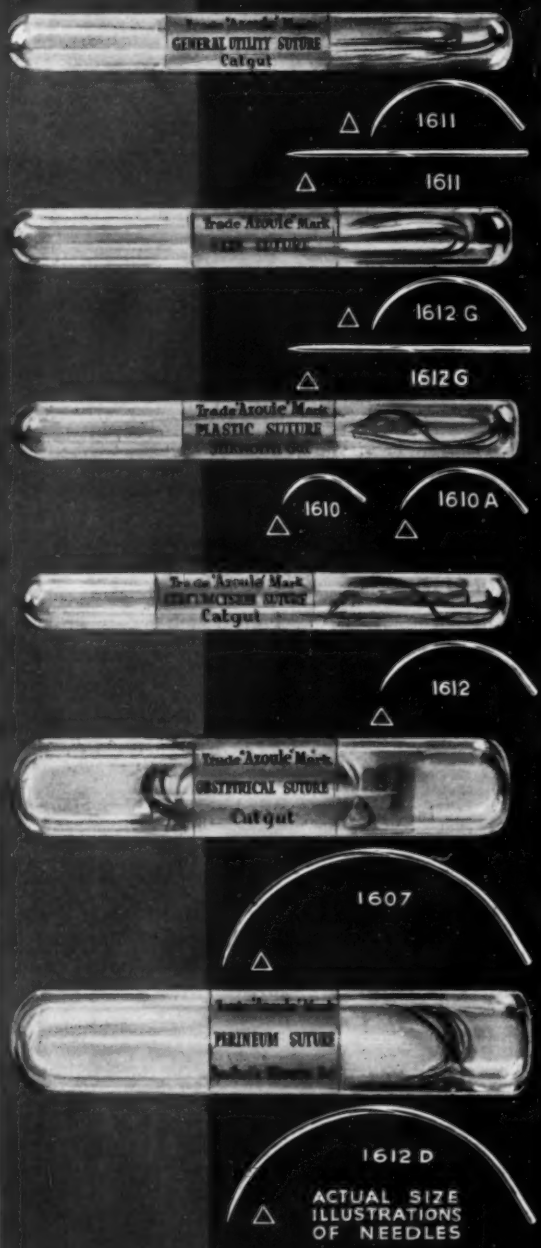
MEDICAMENTA VERA P&Co

PARKE, DAVIS & COMPANY.

50 BEAK STREET : LONDON, W.1

Laboratories : Hounslow, Middlesex *Inc. U.S.A. Liability Ltd.*

FOR MINOR SURGERY



AUTHENTICATED A&H EYELESS NEEDLES SUTURES

Ministry of Health Licence No. 6B

Each suture represents the consensus of professional opinion as to the type of needle and suture material most suitable.

All needles are made of stainless steel, and owing to an improved method of attachment, there is no mutilation at the point where the needle joins the suture material.

All A. & H. eyeless needles are slightly flattened at head so as to prevent rotation in needle holder.

Descriptive leaflets will be sent on application.

Allen & Hanburys Ltd.

Manufacturers of Surgical Instruments and Appliances, Hospital Furniture, Sterilized Surgical Sutures, and Electro-Medical Apparatus,

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GLYCURRANT COUGH LINCTUS

is a new expectorant and sedative preparation, particularly suited to dry coughs, such as that of chronic bronchitis. Its carefully planned composition includes the juice of ripe black currants, an agent which is well known for its soothing effect on the pharynx, and which gives a distinctive, delicious flavour to the mixture.

In bottles at 1/6 and 2/9

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ALLEN and HANBURYS Ltd

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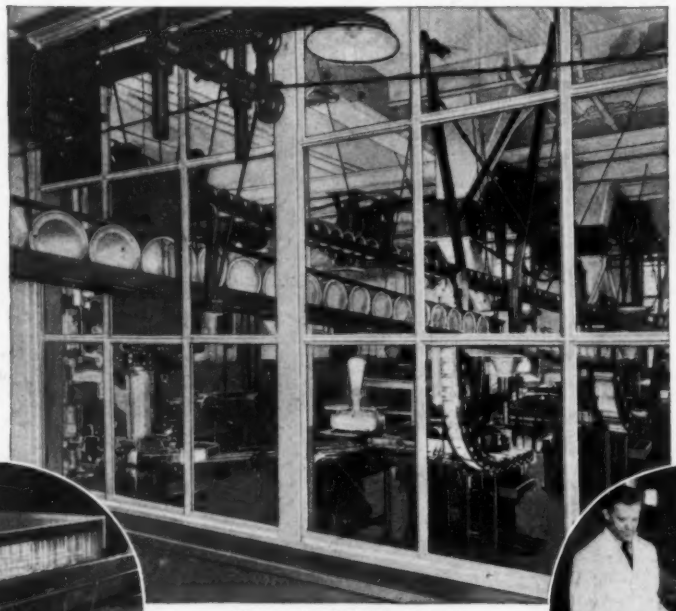
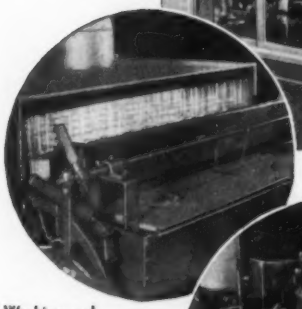
Telephone: Bishopsgate 3201 (12 lines)

Telegrams: "Greenburys Beth London"

Extreme Cleanliness used in Packing MEAD'S DEXTRI-MALTOSE



Glass-enclosed, dust-free room in which Dextri-Maltose is packed.



Washing and steaming empty cans.

Automatic filling machines.

Dextri-Maltose is wrapped by machine.

Sampling for bacteriological tests.

THE EXACTING care used in manufacturing Dextri-Maltose is maintained, even to the final packing and wrapping. The empty cans are washed inside and outside by hot water under pressure, then steamed and dried. Cans are filled in a glass-enclosed, air-conditioned room, the atmosphere of which is washed to free it from dust and bacteria. Enclosed conveyors leading to this room send Dextri-Maltose to machines which automatically fill and close the cans without human handling of the product. The cans are again washed and inspected for imperfections. At this step specimen cans are selected for bacteriological examination to insure that there has been no break in the sanitary control. Finally the cans are wrapped to prevent the covers from accumulating dust. Dextri-Maltose is then held in storage and released for the market only after final approval from the bacteriological laboratory. At every stage in the manufacture of Dextri-Maltose our effort is concentrated on supplying the physician with the carbohydrate that will best promote and maintain the health of his patients. *"The True Measure of Economy Is Value, Not Price"* . . .

MEAD JOHNSON & COMPANY, Evansville, Indiana, U.S.A.

Samples and literature on application,
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SULPHONAMIDE-P

(SULPHANILAMIDE)

The Dependable Chemotherapeutic Agent

Rapid and uneventful recovery may be expected to follow its use in hæmolytic streptococcal infections including

Puerperal Septicæmia, Erysipelas, Tonsillitis, Scarlet Fever with Complications, etc.

There is justification also for its use in

Meningococcal and Gonococcal Infections and for *B. coli* and *Proteus ammoniæ* Infections of the Urinary Tract.

'Tabloid' Sulphonamide-P is the pure, precise and most convenient presentation of the chemotherapeutic agent.

Sulphanilamide is also available as a microcrystalline powder—'WELLCOME' SULPHONAMIDE-P.

For Oral Use

TRADE MARK **'TABLOID'** BRAND

SULPHONAMIDE-P

0·5 gramme Bottles of 25 products, **1/4** Bottles of 100 products, **4/-**

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TRADE MARK **'WELLCOME'** BRAND

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Bottles of 25 grammes, **1/9**
Bottles of 100 grammes, **5/6**

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Interesting facts concerning a notable brand

'WELLCOME' Brand Insulin is notable for supreme quality.

The introduction of 'WELLCOME' Insulin made with pure Crystalline Insulin marked a definite advance.

The valuable experience gained enabled the scientific organisation of Burroughs Wellcome & Co. quickly to undertake the commercial production of 'WELLCOME' Protamine Insulin (with Zinc)—Suspension.

TRADE MARK **'WELLCOME'** BRAND **INSULIN**

Made with **CRYSTALLINE INSULIN**

20 Units per c.c., 5 c.c. phials, 1/6 — 40 Units per c.c., 5 c.c. phials, 2/10
20 ,, ,, c.c., 10 c.c. ,, 2/10 — 80 ,, ,, c.c., 5 c.c. ,, 5/6

TRADE MARK **'WELLCOME'** BRAND

PROTAMINE INSULIN

(with ZINC)—Suspension

Prolonged action leads to control of glycosuria by one daily injection.

40 Units per c.c., 5 c.c. phials, 2/4 — 40 Units per c.c., 10 c.c. phials, 4/6
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Antiphlogistine BRAND DRESSING

Always indicated in—

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Write for sample and literature Made in England

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Available Feb. 1st

NEO-HOMBREOL OINTMENT

SYNTHETIC TESTOSTERONE PROPIONATE

Two Packings: 2 gram tubes (25 mg. to the gram)
25 gram tubes (2 mg. to the gram) - - **14/6**

Literature on application

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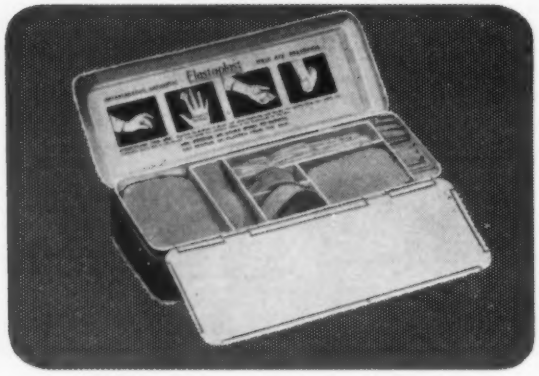
Telephone: Museum 2857 (3 lines).
Australia: F. H. Faulding & Co. Ltd.
New Zealand: Dominion Dental Supplies Ltd.

'Elastoplast' Doctor's Set of Dressings

for Surgery and Consulting Room



This handy set contains 105 ready-cut elastic adhesive dressings and a 1-inch roll of 'Elastoplast' plaster. The medical price is 8/6 complete; refills can be obtained at 8/-.

Elastoplast

TRADE MARK BRAND

Elastic — Adhesive — Antiseptic

THE MODERN SURGICAL DRESSING

Made in England by
T. J. SMITH & NEPHEW, LTD., HULL

NEO-HEPATEX

(parenteral)

The fractionated Liver Extract with remarkable hæmopoietic power

Clinically tested on suitable cases of Pernicious Anæmia

The methods used in its preparation prevent inactivation during manufacture and ensure constancy in therapeutic effect.

Being completely non-toxic the dosage can safely be increased when septic or febrile conditions exist.

The combined advantages of high potency and low price render Neo-Hepatex very economical in cost.

Issued in Ampoules

Boxes of 6 × 1 cc.	-	5/3
„ 6 × 2 cc.	-	8/-
„ 3 × 4 cc.	-	7/-
Rubber-capped bottles 10 c.c.		6/-

Made at

The Evans Biological Institute

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JENNER INSTITUTE Glycerinated VACCINE LYMPH

PREPARED IN ACCORDANCE WITH THE THERAPEUTIC SUBSTANCES REGULATIONS (BRITISH PRODUCT)

Telephone: BATTERSEA 1347.

SINGLE VACCINATION TUBES - - 8d. each; 7s. dozen. Postage 1½d. extra.
LARGE TUBES (EXPORT Only) sufficient for 5 vaccinations, 1s. 3d. each; 12s. dozen.

SOLE AGENTS FOR SCLAVO'S ANTI-ANTHRAX SERUM.

Telegrams: "JENVACTER, PHONE, LONDON" (2 words).

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ELECTROPHORESIS APPARATUS

according to Professor A. Tiselius, Upsala

New device for the separation and characterization of the components in a mixture, with special optical arrangement for observation of the separation process.

Sole Manufacturers: F. HELLIGE & CO., FREIBURG IM BREISGAU

FINEST SELECTION OF SECOND-HAND MICROSCOPES IN LONDON

Watson Metallurgical,	£75	1/12 Oil Imm. Objective Seibert, secondhand	£3 15s.
Watson 'Bactil'	£30	1/12 " " " Beck, "	£3 10s.
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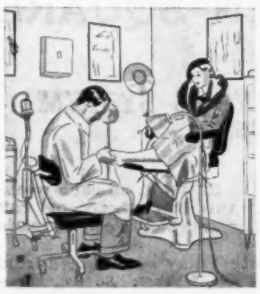

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Statement of Accounts

31st December, 1938.

LIABILITIES

	£	£
Current, Deposit and other Accounts, including Reserve for Taxation and Contingencies and Balance of Profit and Loss	419,448,871	
Balances in Account with Subsidiary Banks	13,632,314	
		433,081,185
Acceptances and Endorsements, &c., for account of Customers		14,933,082
Paid-up Capital		15,858,217
Reserve Fund		10,750,000

ASSETS

		£
Cash in hand, and with the Bank of England		53,241,449
Balances with other British Banks and Cheques in course of collection		14,873,119
Money at Call and Short Notice		26,207,550
Bills Discounted		54,594,153
Investments		96,876,802
Investments in Subsidiary Banks (at cost, *less* amounts written off):—		
The British Linen Bank—£1,240,344 12s. 6d. Stock		3,721,034
The Union Bank of Manchester Limited—300,000 Shares of £5 each, £2 10s. paid		750,000
Other Banks—(including fully paid Shares and 500,000 "B" Shares of £5 each, £1 per Share paid up, in Barclays Bank (Dominion, Colonial and Overseas) and 1,000,000 Shares of £1 each, 5s. per share paid up, in Barclays Bank (France) Limited)		2,525,525
Advances:—Customers and other Accounts	198,430,778	
Balances in account with Subsidiary Banks	1,022,202	
		199,452,980
Liability of Customers for Acceptances and Endorsements, &c.		14,933,082
Bank Premises and Adjoining Properties (at cost, *less* amounts written off)		7,446,790

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FEB. 1939		
23rd.	The Anterior Pituitary Hormones.	Dr. A. S. PARKES, M.A., Ph.D., D.Sc., F.R.S.
MARCH		
2nd.	The Ovarian Hormones ..	Dr. J. M. ROBSON, D.Sc., M.D., F.R.S.E.
9th.	Radiation Therapy in Gynæcology—Benign Conditions.	Mr. LEONARD PHILLIPS, M.S., F.R.C.S., M.C.O.G.
16th.	Dysmenorrhœa	Prof. R. W. JOHNSTONE, C.B.E., M.D., F.R.C.S., F.C.O.G., F.R.S.E.
23rd.	Amenorrhœa	Dr. P. M. F. BISHOP, B.M., B.Ch.
30th.	Functional Uterine Bleeding.	Dr. T. N. MACGREGOR, M.D., F.R.C.S., M.C.O.G.
APRIL		
6th.	Sterility	Mr. CHARLES D. READ, F.R.C.S., F.R.A.C.S., M.C.O.G.
13th.	The Menopause and its Disorders.	Dr. P. M. F. BISHOP, B.M., B.Ch.
20th.	Backache in Gynæcology.	Dr. J. B. MENNELL, M.A., M.D.
APRIL 1939		
27th.	Genital Prolapse	Mr. VICTOR BONNEY, M.S., M.D., F.R.C.S., F.R.A.C.S., M.R.C.P.
MAY		
4th.	Neoplasms of the Ovary, including Endometriosis.	Mr. WILFRED SHAW, M.D., F.R.C.S., F.C.O.G.
11th.	Neoplasms of the Ovary, including Endometriosis (*continued*).	Mr. WILFRED SHAW, M.D., F.R.C.S., F.C.O.G.
18th.	Benign Uterine Neoplasms	Mr. VICTOR BONNEY, M.S., M.D., F.R.C.S., F.R.A.C.S., M.R.C.P.
25th.	Malignant Uterine Neoplasms.	Mr. L. CARNAC RIVETT, M.C., F.R.C.S., F.C.O.G.
JUNE		
1st.	Radiation Therapy in Gynæcology—Malignant Conditions.	Miss E. HURDON, C.B.E., C.M., M.D.
8th.	Gonorrhœa in Women ..	Colonel L. W. HARRISON, D.S.O., F.R.C.P.
15th.	Salpingitis	Mr. ALECK BOURNE, M.A., F.R.C.S., F.C.O.G.
22nd.	Birth Control	Dr. HELENA WRIGHT, M.B., B.S.

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For terms, which are very moderate, apply to the proprietor, Dr. A. C. King-Turner, The Retreat, Fairford, Glos. Telephone 9.

THE COTSWOLD SANATORIUM

First opened in 1898 and rebuilt in 1925 on the Cotswold Hills seven miles from Cheltenham, for the treatment of Pulmonary and all other forms of Tuberculosis. Aspect S.S.W., sheltered from North and East, elevation 800 feet. Pure bracing air, SPECIAL TREATMENT by artificial PNEUMOTHORAX (X-ray controlled). TUBERCULINS, and ULTRA-VIOLET RAYS is available when necessary without extra charge. X-RAY plant, Fully Equipped Dental Department, Electric Light Radiators, hot and cold basins and Wireless in all rooms. Up-to-date drainage. Full day & night Nursing Staff. **Terms 5 to 7½ Guineas a week inclusive.**

Med. Supt.: GEOFFREY A. HOFFMAN, B.A., M.B., T.C. Dub. *Asst. Phys.:* MARGARET A. HARRISON, M.B., B.S. Lond. *Cons. Laryngologist:* G. N. BARKER, F.R.C.S. Edin., D.L.O. *Cons. Dent. Surgeon:* GEORGE V. SAUNDERS, L.D.S.R.C.S. Lond. *Phone:* 81 & 82 Witcombe. Apply: *The Secretary, The Cotswold Sanatorium, Cranham, Gloucester. Telegrams:* "Hoffman, Birdlip."

PRIOR PLACE SANATORIUM

HEATHERSIDE, CAMBERLEY, SURREY.

FOR THE TREATMENT OF PULMONARY TUBERCULOSIS

Well situated on high ground and surrounded by pines and heather.
All rooms are fitted with electric light, wash basins with hot and cold water, and radiators.
X ray plant. Day and night nursing staff.

RESIDENT MEDICAL SUPERINTENDENT: Dr. H. O. BLANFORD, to whom application for admission can be made.

THE LAWN, LINCOLN

A Registered Hospital for Mental and Nervous Diseases situated in Lincoln near the Cathedral and Castle. The grounds are well-laid out and spacious, containing tennis and croquet courts, and the Hospital is within easy reach of the City. Certified, temporary and voluntary patients are received. Treatment includes occupational therapy, and psychotherapy in suitable cases. Further particulars from the Medical Superintendent.

TELEPHONE 165.

CHEADLE ROYAL HOSPITAL, Cheadle, Cheshire.

This REGISTERED HOSPITAL, with a SEASIDE BRANCH at Colwyn Bay, N. Wales, is for the treatment and care of those of the Upper and Middle Classes suffering from MENTAL AND NERVOUS DISEASES.

The Hospital is governed by a COMMITTEE, appointed by the TRUSTEES of the Manchester Royal Infirmary.

In addition to the Main Buildings there are separate villas. Extensive grounds. Hard and grass tennis courts, cricket and croquet grounds, and a court for badminton. There are also wireless installations. Golf may be had within easy distance. Occupational Therapy.

VOLUNTARY, TEMPORARY, AND CERTIFIED PATIENTS received.

The Hospital is nine miles from Manchester, 50 minutes by rail from Liverpool, and 3½ hours from London.

For terms and further particulars apply to the Medical Superintendent, who may be seen in Manchester BY APPOINTMENT. *Telephone: Gatley* 2231 (3 lines).

CAMBERWELL HOUSE

Telegrams: "PSYCHOLIA, LONDON." 33, PECKHAM RD., LONDON, S.E.5. Telephone: Rodney 4242 (2 lines).

For the treatment of MENTAL DISORDERS.

Also completely detached Villas for Mild Cases, with private suites if desired. Voluntary Patients received. Twenty acres of Grounds, Hard and Grass Tennis Courts, Putting Greens, Bowls, Croquet, Squash Rackets, Recreation Hall with Badminton Court, and all indoor amusements, including Wireless and other Concerts, Occupational Therapy, Calisthenics, and Dancing Classes. X-ray and Actino-therapy, Prolonged Immersion Baths, Operating Theatre, Pathological Laboratory, Dental Surgery, and Ophthalmic Department. Chapel.

Senior Physician: DR. HUBERT JAMES NORMAN, assisted by three Medical Officers, also resident and visiting Consultants.

An illustrated Prospectus, giving fees which are strictly moderate, may be obtained upon application to the Secretary.

The Convalescent Branch is Hove Villa, Brighton, and is 200 feet above sea level.

PENDYFFRYN HALL SANATORIUM

All Modern Methods of Treatment Available.

Ideally situated for the treatment of Tuberculosis. Sheltered from E. & N.E. winds. Climate mild and bracing. Low rainfall, high average of sunshine. The Sanatorium is situated in its own park. There are miles of graduated walks through pine, gorse and heather, rising to 800 ft., and commanding extensive sea and mountain views. Central heating, electric light, X-ray installation. Wireless in all rooms. Full day and night nursing staff. Special milk supply from a tuberculin tested herd. Easily accessible from LONDON (4½ hours), MANCHESTER, LIVERPOOL, BIRMINGHAM and the North.

Rooms now available from 5 guineas weekly.

Resident Physicians: **Dennison Pickering, M.D.; S. A. Yaffe, M.D.**

For particulars apply to the Secretary, Pendyffryn Hall, near Penmaenmawr, North Wales. 'Phone 20.

COURT HALL, KENTON, near EXETER

FOR THE TREATMENT OF EIGHT LADIES, VOLUNTARY, TEMPORARY AND CERTIFIED PATIENTS

CLIFFDEN, TEIGNMOUTH

FOR EARLY AND CONVALESCENT CASES Recreational Therapies are held daily by skilled Leaders

The house stands high with spacious balconies and extensive views of the South Devon Coast. Beautiful garden. Own Dairy in 25 acres. Private road to beach. There is also a charming house, **EBWORTHY, MANATON, DARTMOOR,** situated in 20 acres, 1100 ft. up for bracing moorland air.

Resident Physicians—BERTHA M. MULES, M.D., B.S. ANNE S. MULES, M.R.C.S., L.R.C.P.

Telephones—STARCROSS 59 and TEIGNMOUTH 289

HAYDOCK LODGE,

NEWTON-LE-WILLOWS, LANCASHIRE.

For the reception and treatment of PRIVATE PATIENTS of both sexes of the UPPER AND MIDDLE CLASSES suffering from Mental and Nervous Diseases, either voluntarily, temporarily, or under certificate. Patients are classified in separate buildings according to their mental condition. Situated in park and grounds of 400 acres. Self-supported by its own farm and gardens in which patients are encouraged to occupy themselves. Every facility for indoor and outdoor recreation. For terms, prospectus, etc., apply MEDICAL SUPERINTENDENT. *'Phone:* Ashton-in-Makerfield 7311. *Tele. Address:* Street, Ashton-in-Makerfield.

PARK SANATORIUM

(FORMERLY SANATORIUM TURBAN)

DAVOS-PLATZ, SWITZERLAND

First-class house, 5,150 ft. above sea-level. Large park and wood belonging to the sanatorium. Terms for board and residence, including room, medical treatment, etc., from Frs. 16.– per day. Prospectus.

Medical Superintendent, F. BAUER, M.D.

BROMPTON HOSPITAL
and FRIMLEY SANATORIUM

PAYING PATIENTS RECEIVED
BOTH MEDICAL and SURGICAL CASES
5 to 8 guineas per week at the Hospital. 3 to 4 guineas per week at the Sanatorium

APPLY TO THE SECRETARY:—BROMPTON HOSPITAL, S.W.3

THE OLD MANOR SALISBURY

A Private Hospital for the Care and Treatment of those of both sexes suffering from MENTAL DISORDERS.

Extensive grounds. Detached Villas. Chapel. Garden and Dairy Produce from own farm. Terms very moderate.
CONVALESCENT HOME AT BOURNEMOUTH Detached Villas standing in 12 acres of ornamental grounds, with tennis courts, etc., which Voluntary, Temporary or Certified Patients may visit by arrangement for long or short period.
Illustrated Brochure on application to the Medical Superintendent. The Old Manor, Salisbury. Telephone: Salisbury 3216 and 3217.

CALDECOTE HALL
NUNEATON
WARWICKSHIRE
('Phone: Nuneaton 241)

Residential treatment of
"Nervous Disorders" & Alcoholism
(Certifiable cases are not received)

This beautiful mansion situated in the heart of the country (less than two hours from London by L.M.S.R.) and surrounded by charming pleasure grounds in which games and outdoor occupational therapy are available is devoted to the treatment of Alcoholism and "Nerves" by psychotherapeutic and ancillary methods.

Illustrated Brochure and particulars obtainable from A. E. CARVER, M.D., D.P.M., Resident Medical Superintendent.

SHAFTESBURY HOUSE
FORMBY-BY-THE-SEA, Nr. LIVERPOOL

Specially built and licensed for the care and treatment of a limited number of Ladies and Gentlemen suffering from NERVOUS and MENTAL breakdown. Voluntary and certified patients received. Ladies also admitted as Temporary Patients without certification. Terms moderate. *Apply*, RESIDENT PHYSICIAN, who may be seen at 31, Rodney Street, Liverpool, by appointment. *Tel. No. 8 Formby.*

CLARENCE LODGE
CLAPHAM PARK, LONDON
Situated in 3½ acres of secluded gardens.
HOME FOR TWELVE MENTAL PATIENTS (LADIES).

Well-appointed private house. Home comforts and Trained Nursing Staff. Eminent Mental Specialist. Visiting Physician.

Station: Clapham Common Tube.

Phone: Tulse Hill 4913

Apply MISS THWAITES.

STRETTON HOUSE,
Church Stretton, Shropshire.

A PRIVATE HOME for the treatment of gentlemen suffering from Mental and Nervous illness, including the allied Disorders of Alcoholism and the Drug Habit. All types of early Mental and Nervous Cases are received without Certificates as Voluntary Patients under the provisions of the Mental Treatment Act, 1930. Bracing hill country. See "Medical Directory," p. 2368.—Apply to the Medical Superintendent. 'Phone 10 P.O., Church Stretton.

EPPING HOUSE
LITTLE BERKHAMSTED, Nr. HERTFORD, HERTS.

An attractive and comfortable PRIVATE HOME. Beautifully situated in its own grounds, 400 feet above sea level. Exceptionally healthy air and position affords every facility for convalescence. Foam Baths, Billiards, Squash Racquets, Lawn Tennis, Croquet, Bowls, Farm Produce, &c.

Treatment for Ladies and Gentlemen suffering from Insomnia, Functional Nervous Disorders, Alcohol and Drug Habits, Chronic Heart and Kidney Diseases, also Convalescing Cases.

Telephone: Essenden 12. *Apply*, J. C. BAKER, M.B.

PORTSMOUTH CITY MENTAL HOSPITAL

Accommodation is provided for the reception of PRIVATE PATIENTS of both sexes in three detached Villas, which are healthily and pleasantly situated in extensive grounds with sea views.

Charges from 3 guineas weekly, including all necessaries except clothing.—Apply to the Medical Superintendent and Resident Physician, THOMAS BEATON, O.B.E., M.D., F.R.C.P.

CHISWICK HOUSE,
PINNER, MIDDLESEX.
Telephone: PINNER 234.

A Private Hospital for the Treatment and Care of Mental and Nervous Illnesses in both Sexes.

A modern country house, 12 miles from Marble Arch, in attractive and secluded surroundings. Fees from 10 guineas per week inclusive. Cases under Certificate, Voluntary and Temporary Patients received for treatment.

DOUGLAS MACAULAY, M.D., D.P.M.

CITY OF LONDON MENTAL HOSPITAL
Near DARTFORD, KENT.

Ladies and Gentlemen received for treatment under certificates, and without certificates as either VOLUNTARY or TEMPORARY PATIENTS, at a weekly fee of £2 9s., and upwards.

FENSTANTON
Christchurch Road, Streatham Hill, S.W.2

A Private Home for the Treatment of LADIES with Mental and Nervous Disorders. Psycho-Therapy, Physio-Therapy, &c. 12 acres of grounds

Apply: Dr. MADELINE R. LOCKWOOD, *phone:* TULSE HILL 7181 *Resident Physician Superintendent.*

PRIVATE NERVOUS AND MENTAL PATIENTS

London County Council. — Accommodation for Male Patients suffering from nervous and mental disorder (voluntary, temporary, or certified) is provided in the private section of Claybury Hospital, Woodford-bridge, Essex. Terms, exclusive of clothing and special luxuries, 49s. a week for London cases, 53s. 1d. a week for others.

For particulars apply to the Medical Superintendent at the Hospital, or to the Chief Officer, Mental Hospitals Department, Shell-Mex House, Strand, W.C.2.

HOME FOR EPILEPTICS

MAGHULL (near LIVERPOOL)

FARMING and OPEN AIR OCCUPATION for PATIENTS

A few vacancies in 1st and 2nd Class Houses.

FEES: 1st Class (men only) from £5 5s. per week upwards.
2nd Class (men and women) 32/- per week.

For further particulars apply:
C. EDGAR GRISEWOOD, A.C.A., Secretary,
20, Exchange Street East, Liverpool, 2

NORTHUMBERLAND HOUSE

GREEN LANES,
FINSBURY PARK, N.4

A PRIVATE HOSPITAL for the treatment of mental and nervous illnesses. Conveniently situated and easy of access from all parts. Occupational Therapy, Psychotherapy, and other modern forms of treatment.

Telephone: Stamford Hill 2688.

For further particulars apply to the MEDICAL SUPERINTENDENT.

Telegraphic Address: "Relief, Old Catton." Telephone: 290 Norwich.

NERVOUS & MENTAL AFFECTIONS

Ladies only received

The Grove, Old Catton, Norwich.

A High-class Home for the Curative Treatment of Nervous Affections. Voluntary Boarders are also received without certificates.

For full particulars apply to the Misses McLINTOCK or to Dr. S. BARTON, 34, Surrey-street, Norwich, Visiting Physician.

HEIGHAM HALL, NORWICH

A PRIVATE MENTAL HOME situated in 14 acres of well-wooded grounds. For Ladies and Gentlemen suffering from Nervous or Mental Illness. Voluntary Patients, Temporary Patients, and Patients under Certificates are admitted for Treatment. Fees: from 4 guineas a week upwards, according to requirements. A few vacancies exist for Ladies and Gentlemen at reduced fees on the recommendation of the Patient's own Physician.

Apply to Dr. J. A. SMALL.
Telephone: 80 Norwich. Telegrams: Small, 80 Norwich.

MALLING PLACE, KENT

For LADIES and GENTLEMEN of Unsound Mind.

Terms moderate. Apply to Resident Medical Superintendent. Telegrams: ADAM WEST MALLING. Telephone No. 2: MALLING.

SPRINGFIELD HOUSE

'Phone: BEDFORD 3417. **Near BEDFORD**

For Mental Cases with or without Certificates.

Ordinary Terms: Five Guineas per week (including Separate Bedrooms for all suitable cases without extra charge).

For forms of admission, &c., apply to the Resident Physician, CEDRIC W. BOWER.

INTERVIEWS IN LONDON BY APPOINTMENT.

BROOKE HOUSE, CLAPTON

A PRIVATE HOME for the treatment of Nervous and Mental Disorders in both sexes. Situated in nine acres of Pleasure Grounds.

Voluntary, Temporary, and Certified Patients received.

For further particulars apply—
Dr. ERNEST ROLLINS, Resident Physician.
Tel.: Amherst 1642.

Grove House, All Stretton, Church STRETTON, SHROPSHIRE.

A PRIVATE HOME for the care and treatment of a limited number of Ladies Mentally Afflicted.

Climate healthy and bracing.

Apply to Dr. McCLINTOCK, Proprietor and Resident Medical Superintendent.

RHEUMA SPA, KINMEL HALL,

ABERGELE, NORTH WALES

Modern Spa Treatments, including Continental Pistany Mud and Scotch Douche, for Rheumatic and similar disabilities. Resident Physician. Excellent amenities and Recreational facilities.

IDEAL WINTER QUARTERS—REDUCED RATES

SAN REMO OSPEDALETTI BORDIGHERA

THE THREE PEARLS OF THE ITALIAN RIVIERA

Mild climate, brilliant sky and pure air—during Winter daily 9–12 hours' sunshine—quiet and favoured resort for convalescents and people in need of quietude.

SAN REMO EXCELSIOR First class, quiet, protected South position in the East Bay. Diet cures. Sun verandas. Sea—and medical bathing. Tennis. Open the whole year round.

THE MARINE SPA

(under the direction of the Corporation)

TORQUAY

Newly fitted Balneological, Electro-Medical, and Small Turkish and Russian Bath sections for recognised forms of Spa, etc., treatment, under mild winter climatic conditions. Large Cooling Lounge, and "Vita" Glass Sun Lounge. Warm Sea-Water Swimming Bath with modern filtration plant. Assistants with C.S.M.M.G., and Bio-Physical qualifications.

Illustrated Spa and Health Resor Brochures post free on application.

H. Berkeley Hollyer, General Manager.
(late Manager, Brine Baths, Droitwich Spa)

Smedley's

Great Britain's Greatest Hydro

Matlock

Unrivalled suites of Baths—Turkish and Russian Baths, Aix and Vichy Douches, Massage; Plombières Treatment. Studs Chair. Electric Installation for Baths and other Medical Purposes, Dowsing Radiant Heat, Infra-red Light, Artificial Sunlight, D'Arsonval High Frequency, Diathermy, Nauheim Baths, Soapless Foam Baths, etc. "Certified" Milk from own farm. Large Winter Garden. Orchestra. Special provision for Invalids. Night attendance. Over 60 trained Male and Female Nurses, Masseurs, Attendants, etc.

Resident Physicians: G. C. R. HARBINSON, M.B., B.Ch., B.A.O. (R.U.I.), H. RHYS DAVIES, B.A., M.B., B.Ch., B.A.O. **TERMS, 13s. to 18s. per day, include Turkish and other Baths.**

Illustrated Brochure C.J. on request.

'Phone: Matlock 17 (3 lines). *'Grams:* Smedleys, Matlock.

The Physical Treatment Centre that is "different"!

50 minutes from London (Victoria), 15 minutes from Brighton. Standing in 7 acres of lovely grounds at the foot of the South Downs.

Climate, mild but not relaxing. No fogs, sheltered from cold winds.

Comfort, Service and every facility for Physical Treatment, without irksome restrictions of nursing home or clinic.

Treatments, include: Foam Baths, Ultra-Violet and Infra-red Ray, Diathermy, and other Electrical treatments, Pistany Mud Packs, etc. Massage and Remedial Exercises, Fully-qualified staff. Resident Physician.

Convalescent patients specially catered for.

Electric Lift to all floors. Fully Licensed. Superb Cuisine, Special Dieting if required.

● *Medical Practitioners are cordially invited to visit the Restorium. Write for Brochure and Terms to: Physician in Charge, Sunnyside Restorium, Hassocks, Sussex. Telephone: Hassocks 103.*

Sunnyside
Restorium
HASSOCKS . . . SUSSEX

West London Hospital,
Hammersmith-road, W.6. (239 Beds.)

Applications are invited for the post of SURGICAL REGISTRAR AND TUTOR (RESIDENT). Candidates must be duly qualified registered Medical Practitioners (Male), unmarried, and should hold one of the higher surgical qualifications. Salary is at the rate of £225 a year, with full board and residence. Four weeks' holiday a year. The appointment is for one year from 1st April next or earlier, terminable by three months' notice on either side, and, subject to annual re-election, may be extended to not more than three years.

The duties will include deputising for the Honorary Surgeons, teaching in the Medical School, and as Senior Resident Officer the candidate appointed will be responsible for certain administrative duties.

Applications, with copies of testimonials, should reach me not later than Saturday, 11th February. Candidates must attend a meeting of the Medical Council and House Committee on Friday, 24th February, at 4.30 P.M., and, prior to that date, call upon and send copies of their application and testimonials to each member thereof. They must not canvass members of the Board, but, if so notified, must attend a Meeting of the Board of Management on Tuesday, 28th February, at 5 P.M., when the appointment will be made.

H. A. MADGE, Secretary.

Central London Ophthalmic Hospital,
Judd-street, W.C.1.

Applications are invited for the post of HON. ASSISTANT PHYSICIAN. Candidates must be Fellows or Members of the Royal College of Physicians, London, or Doctors of Medicine of a British University, and will be required to attend Out-Patients for one session each week.

Applications, with copies of not less than three testimonials, should reach the undersigned by Wednesday, February 1.

GEORGE WATTS, Secretary.

The London Chest Hospital,
Victoria Park, E.2.
('Bus, Tram, and Rail, Cambridge Heath, L. & N.E. Railway.)

A vacancy for a HOUSE PHYSICIAN (Male) will occur on March 1st. Six months' appointment. Salary at the rate of £100 per annum. Board, residence, and laundry provided.

Applications, with copies of three testimonials, should be sent to the undersigned on or before Saturday, February 4th, 1939.

THOMAS BROWN, Secretary.

Dreadnought Hospital,
Greenwich, S.E.10. (Seamen's Hospital Society).—Half-time Non-resident RECEIVING ROOM OFFICER required on the 1st March for seven months until 30th September. Morning or afternoon sessions with alternate Saturdays 9 A.M. to 12 NOON. Previous experience in resident posts essential The post is suitable for those studying for higher examinations. Salary at the rate of £150 per annum with meals.

Applications, stating age, nationality, and experience of House appointments, accompanied by copies of testimonials, to be sent in on or before 2nd February to the undersigned.

F. A. LYON, Secretary.

9th January, 1939.

Dreadnought Seamen's Hospital,
Greenwich, S.E.10.

The Committee of Management of the Seamen's Hospital Society invite applications for the post of HONORARY DERMATOLOGIST. The elected candidate will have care of In- and Out-Patients and will be appointed for twelve months, but will be eligible for reappointment.

Candidates must be Doctors of Medicine of a University in the United Kingdom, or Ireland; or Fellows or Members of the Royal College of Physicians, London.

Applications to be sent in on or before the 24th February to the undersigned from whom further particulars can be obtained.

By Order,
16th January, 1939. F. A. LYON, Secretary.

West End Hospital for Nervous
DISEASES, Gloucester Gate, Regent's Park, N.W.1.

IN-PATIENT DEPARTMENT.

The Committee of Management invites applications for two RESIDENT HOUSE PHYSICIANS (Male). Duties to commence 1st March, 1939. Salary at the rate of £125 per annum, with board, residence, and laundry.

Preference will be given to candidates who have held a resident appointment in a general hospital.

Applications, with copies of three recent testimonials, must be received by the undersigned not later than Monday, January 30th, 1939.

J. P. WETENHALL, Secretary and House Governor.
73, Welbeck-street, W.1.

The West London Hospital Medical
SCHOOL,
West London Hospital, W.6.

There is a vacancy for the post of LECTURER IN FORENSIC MEDICINE. Candidates must be registered Medical Practitioners and have special experience of medico-legal work as well as previous experience in teaching.

Particulars as to duties, remuneration, &c., may be obtained from the Dean to whom applications, together with the names of not more than three referees, should be sent not later than Saturday, February 25th.

Saint Mary's Hospital for Women and
CHILDREN, Plaistow, E.13.

Applications are invited for the posts of RESIDENT SURGICAL OFFICER and RESIDENT HOUSE PHYSICIAN (vacant March 1st), Male or Female. The appointments are for six months. Board and residence are provided. Salaries at the rate of £155 and £150 per annum respectively, including £5 allowance for laundry. Personal canvassing not desired.

Applications, with copies of three recent testimonials, to be sent to the undersigned not later than February 6th.

A. ERNEST WILKES, Secretary.

The Radium Institute,
Riding House-street, London, W.1

Applications are invited for the post of RESIDENT MEDICAL OFFICER. Candidates must be unmarried.

The salary will be at the rate of £250 per annum, board, residence, and laundry being provided, and the appointment is for six months commencing 6th February, 1939.

Applications, stating age, nationality, qualifications, and experience, with copies of three recent testimonials, must be received at the Institute not later than the first post on the 31st January, 1939.

Canvassing, either directly or indirectly, is not permitted.

THOS. A. GARNER, Secretary.

The Queen's Hospital for Children,
Hackney-road, London, E.2.
(160 Beds.)

HOUSE SURGEON required 1st March, 1939.

CASUALTY OFFICER required 1st March, 1939. Some Dermatological work in addition.

Six months' appointments. Salary at the rate of £100 per year, with board, lodging, and laundry in each case.

Applications must be made on forms to be obtained from the undersigned, and be sent in, with copies of not more than three testimonials, on or before 4th February, 1939.

CHARLES H. BESSELL, Secretary.

3rd January, 1939.

ROYAL NAVAL MEDICAL SERVICE

Vacancies exist for MEDICAL OFFICERS in the Royal Navy, and applications are invited for entry in March, 1939.

Candidates below the age of 28 years are preferred, and they must be registered under the Medical Acts. No examination in professional subjects will be held but candidates will be required to attend for interview by a Selection Board.

Selected candidates will be entered for Service for a period of three years, which if desired is usually extended to five years at the discretion of the Admiralty.

Officers who leave the Service at the end of the initial period of three years will be eligible for a gratuity of £400, and those who leave at the end of five years for a gratuity of £1,000.

At the end of five years' Short Service permanent commissions will be given to selected officers who wish to make the Naval Medical Service their permanent career. Officers transferred to the permanent list will receive a gratuity of £1,000 (less Income Tax).

Full opportunities exist for transfer to the permanent list. Marriage Allowance is paid under the same conditions as for other Naval Officers.

Opportunities are available for officers on the permanent list for post-graduate study, to specialise, to take higher examinations and to obtain further qualifications.

Copies of the regulations for entry and conditions of Service, including rates of pay, allowances and retired pay, may be obtained from the Medical Director-General of the Navy, Admiralty, S.W.1, and from the Deans of all Medical Schools.

Applications for entry from intending candidates must be received not later than 28th February, 1939.

AMENDED ADVERTISEMENT.

Borough of Leyton.

DEPUTY MEDICAL OFFICER OF HEALTH AND DEPUTY SCHOOL MEDICAL OFFICER.

Applications are invited from registered Medical Practitioners (Male) possessing a registered Diploma in Public Health or State Medicine, for the appointment of Deputy Medical Officer of Health and Deputy School Medical Officer.

Age not to exceed forty-five years.

The salary attaching to the post will be £750 per annum.

Candidates must have had special experience in the diagnosis and treatment of infectious diseases and preference will be given to those with previous experience in school medical inspection.

The appointment will be subject to the provisions of the Local Government and Other Officers' Superannuation Act, 1922, or in the event of the person appointed taking up his duties after the 31st March, 1939, to the provisions of the Local Government Superannuation Act, 1937; and to the conditions set out on the form of application.

Applications must be made on the prescribed forms which can be obtained by sending stamped, addressed foolscap envelope to the undersigned.

Applications endorsed "Deputy Medical Officer of Health" must reach the undersigned as soon as possible, and not later than the first post on the 20th February 1939. Canvassing directly or indirectly will be a disqualification.

JNO. ATKINSON, Town Clerk.

Town Hall, Leyton, E.10, January, 1939.

King George Hospital, Ilford (near London).

Applications are invited for the post of HONORARY ANÆSTHETIST.

Particulars as to duties and honorarium can be obtained from the undersigned, to whom applications should be sent not later than 13th February.

G. AUSTIN HEPWORTH, Secretary and Superintendent.

The Royal Dental Hospital of London

SCHOOL OF DENTAL SURGERY
(University of London),
32, Leicester-square, W.C.2.

The post of LECTURER on PHARMACOLOGY and MATERIA MEDICA to the above School is vacant.

Candidates for the appointment are requested to send in thirty copies of their applications and testimonials on or before 18th February, 1939, to the Dean.

Middlesex County Council.

CENTRAL MIDDLESEX COUNTY HOSPITAL,
Acton-lane, Willesden, N.W.10.

Non-resident (Grade II) PHYSICIAN required—registered Medical Practitioner (Man or Woman) of high qualifications and professional attainments with Diploma in Psychological Medicine; previous experience wholly or chiefly practice of clinical medicine.

Senior appointment in Council's general hospital service (subject to three months' notice). Whole-time duties under supervision of Medical Superintendent include teaching of post-graduate students if required and other duties as directed. Inclusive salary £650 by £50–£1000 per annum (any fees to be paid in). Residence within easy access of hospital essential. Pensionable staff, subject to medical examination.

Applications, stating date of birth, qualifications, and experience, with copies of not more than three recent testimonials, to the undersigned by 4th February, 1939. Envelopes must be endorsed "Physician—B.3." No application forms. Canvassing, directly or indirectly disqualifies.

C. W. RADCLIFFE, Clerk of the County Council.

Guildhall, Westminster, S.W.1.

East Ham Memorial Hospital,

Shrewsbury-road, E.7.
(104 Beds.)

Applications are invited for the post of HOUSE PHYSICIAN (Male). The appointment is for six months commencing 1st March. Salary at the rate of £150 per annum, with board, residence, and laundry.

Applications, stating age, nationality, experience, and full particulars, together with copies of three testimonials, should reach the undersigned by 16th February, 1939.

REGINALD PERRY, Secretary.

Central London Throat, Nose, and Ear

HOSPITAL, Gray's Inn-road, W.C.1.

ASSISTANTS IN THE OUT-PATIENT DEPARTMENT.

There are the following vacancies:—

THIRD ASSISTANT for attendance on Wednesdays at 2 P.M.

THIRD ASSISTANT for attendance on Thursdays at 2 P.M.

The duties are to assist the Surgeons in seeing the patients and the posts are honorary.

Applications, which may be for period of three, six, or twelve months, should be sent to the undersigned immediately.

JOHN H. YOUNG, Secretary-Superintendent.

BRITISH COLLEGE OF OBSTETRICIANS AND GYNÆCOLOGISTS

The next EXAMINATION for the DIPLOMA (D.C.O.G.) will be held on March 7th (written) and March 21st (clinical and viva voce).

Application for entrance to the Examination (on the prescribed form obtainable from the Honorary Secretary) must be made not later than Tuesday, 7th February, 1939.

58, Queen Anne-street, London, W.1.

The Hospital for Sick Children,

Great Ormond-street, London, W.C.1.

A RESIDENT MEDICAL ASSISTANT AND CLINICAL PATHOLOGIST is required as soon as possible after the 1st March, 1939. Salary £125 per annum.

The appointment is tenable in the first instance for one year, but may be held for a period of two years, subject to re-election.

The morning duties will include those of an Out-patient Medical Registrar. The afternoons will be devoted to work in a section of the Pathological Department.

Candidates must be unmarried, possess a legal qualification to practise, and have held a responsible resident appointment at a General Hospital.

Applications must be received by NOON on Monday, the 20th February, 1939, and candidates must be prepared to attend for interview by the Joint Committee at 4.45 P.M. on Wednesday, 1st March, 1939.

Further particulars and forms of application are obtainable from the undersigned.

HERBERT F. RUTHERFORD, Secretary.

January, 1939.

St. Bartholomew's Hospital.

HELEN CAVE MEMORIAL SCHOLARSHIP.

This entrance Scholarship, in a wide range of subjects (Matriculation standard), is tenable at St. Bartholomew's Hospital Medical College. The next examination will be held in September, 1939. The value of the Scholarship is about £200. Candidates must be the sons of medical men. In awarding the Scholarship consideration is given to a candidate's financial circumstances and to his school career.

Further details can be obtained by application to the Dean of the Medical College, St. Bartholomew's Hospital, E.C.1.

Royal Northern Hospital,

Holloway, N.7.

Applications are invited for the following appointment :—

HOUSE PHYSICIAN, vacant 1st March. The appointment is for nine months (three months as Out-Patient Medical Officer and Anæsthetist and six months as House Physician). Salary at the rate of £70 per annum, with board, residence, and laundry.

Applications, with copies of testimonials, should be sent by 3rd February to the undersigned, from whom the necessary forms of application and rules can be obtained.

GILBERT G. PANTER, Secretary.

The Elizabeth Garrett Anderson

HOSPITAL, Euston-road, N.W.1.

The Managing Committee invite applications from qualified Medical Women for the honorary appointment of :—

ASSISTANT to the EAR, NOSE, AND THROAT DEPARTMENT.

Candidates should have the F.R.C.S. or should obtain it within a reasonable time.

Applications, with copies of three testimonials, should be sent to members of the Honorary Medical Staff, a list of whom is furnished on receipt of application. Fifteen copies are required for the Managing Committee and should be addressed to the undersigned on or before the 24th February, 1939.

JEAN R. MURRAY, Secretary.

St. Mary's Hospital, W.2.

Applications are invited from duly qualified Practitioners for the post of RESIDENT ANÆSTHETIST.

The salary is £125 per annum, with board and residence.

The appointment will be, in the first instance, for six months, but the holder will be eligible for a second period of six months.

Copies of the regulations for Resident Anæsthetist may be obtained from the Secretary's Office.

Applications, with copies of testimonials, not exceeding three in number, should reach the undersigned on or before Thursday, 9th February, 1939.

W. PARKES, House Governor.

St. George's Hospital, S.W.1.

Applications are invited for the appointment of RESIDENT ASSISTANT PHYSICIAN at the above Hospital. He must be a graduate in Medicine and Surgery of a British University and a Member of the Royal College of Physicians, London, and registered according to the Medical Act, 1858. Salary £250 per annum with emoluments.

Applications, accompanied by testimonials, of recent date, should be sent to the Secretary on or before 1st February 1939.

JAMES M. CHURCHFIELD, Secretary.

16th January, 1939.

St. George's Hospital, S.W.1. — A

vacancy will shortly occur in the office of SURGEON and also of ASSISTANT SURGEON at the above Hospital. Candidates for these offices, who must be Fellows of the Royal College of Surgeons (England) and registered according to the Medical Act, 1858, should send in their applications to the Secretary on or before Saturday, 4th February, 1939.

The Senior Assistant Surgeon is a candidate for the office of Surgeon.

JAMES M. CHURCHFIELD, Secretary.

23rd January, 1939.

The South London Hospital for Women,

Clapham Common, S.W.4. (140 Beds.)
A General Hospital for Women and Children.

Applications are invited from medical women for the undermentioned appointment :—

CLINICAL ASSISTANT

for Gynæcological out-patients to attend on Tuesday mornings.

Applications, with testimonials, to be sent to the Secretary at the Hospital.

The South London Hospital for Women,

Clapham Common, S.W.4. (140 Beds.)
A General Hospital for Women and Children.

Applications are invited from medical women for the undermentioned appointment :—

HOUSE SURGEON

for a period of six months from March 1st, 1939.

Salary at the rate of £100 per annum, with board, residence, and laundry.

Candidates are requested to call on members of the Hon. Medical Staff before Saturday, February 11th, by which date applications and copies of testimonials must reach the Secretary at the Hospital.

County Borough of West Ham.

EDUCATION DEPARTMENT.

Applications are invited from fully qualified Dentists (Male) for appointment as SENIOR SCHOOL DENTAL OFFICER. The person appointed will be responsible to the School Medical Officer, and will be required to devote the whole of his time to the service of the Education Committee, to coördinate and supervise the work of the existing dental staff, and also to undertake clinical work. Salary £600 per annum, rising by annual increments of £25 to a maximum of £700 per annum, all fees received from whatever source to be paid over to the Council.

The appointment will be subject to the provisions of the Local Government and Other Officers' Superannuation Acts and to medical examination as required by the Council for the purposes of such Acts, and the statutory contributions will be deducted from the salary.

Canvassing members of the Education Committee or the Council, either directly or indirectly, will be considered a disqualification.

Forms of application, together with particulars of duties, may be obtained from the School Medical Officer, Municipal Health Offices, 88, Romford-road, E.15, upon receipt of a stamped addressed envelope, and should be returned to the undersigned not later than Saturday, 18th February, 1939.

CHARLES E. CRANFIELD,
Town Clerk and Education Officer.

Education Offices, 95, The Grove, Stratford, E.15.

25th January, 1939.

Princess Elizabeth of York Hospital

FOR CHILDREN
(Formerly East London Hospital for Children)
Shadwell, London, E.1.

Applications are invited for the appointment of HONORARY RADIOLOGIST in charge of the X-RAY and ELECTRO-THERAPEUTICAL DEPARTMENT to attend the above hospital regularly twice a week, emergencies excepted.

Candidates are required to hold a Diploma in Medical Radiology.

Applications, with copies of three testimonials, should be made by Monday, 6th February, to the undersigned from whom further particulars may be obtained.

EDWARD PENTON, Secretary-Superintendent.

Royal Free Hospital,

Gray's Inn-road, W.C.1.

Applications are invited from Medical Women who have had recent previous V.D. experience for the part-time appointment of ASSISTANT MEDICAL OFFICER in the department for treatment of Venereal Diseases (Female) vacant on the 1st April, 1939. Tenable for twelve months at a minimum salary of £300 per annum.

Intending candidates should submit applications, stating age and experience, with copies of three recent testimonials to the undersigned on or before 4th February.

RICHARD T. BARTLEY, Secretary.

London County Council.

Applications invited from Medical Practitioners of at least one year's standing for undermentioned positions. Candidates must have held resident appointment in a general hospital for at least six months. Married quarters not available.

ASSISTANT MEDICAL OFFICERS (Class I).—Salary £350–£25–£425, with board, lodging, and washing.

(a) HACKNEY HOSPITAL, Homerton High-street, E.9.—Obstetric and gynæcological duties.

(b) ST. GILES' HOSPITAL, St. Giles'-road, Camberwell, S.E.5. Medical duties.

(c) ST. JAMES' HOSPITAL, Ouseley-road, Balham, S.W.12. Duties in fracture and plastic surgery departments.

*(d) ST. MARY ABBOTS HOSPITAL, Marloes-road, Kensington, W.8. Obstetric and gynæcological duties.

(e) ST. PETER'S HOSPITAL, Fulbourne-street, Whitechapel, E.1. Duties mainly medical, experience in emergency surgery desirable.

* No accommodation for a woman.

ASSISTANT MEDICAL OFFICERS (Class II).—Salary £250 a year, together with board, lodging, and washing. Appointment for one year only in first instance (renewable for a second year under certain conditions).

(f) ST. LEONARD'S HOSPITAL, Nuttall-street, Kingsland-road, N.1.

(g) ST. STEPHEN'S HOSPITAL, 369, Fulham-road, S.W.10. Duties mainly medical, experience in anæsthetics desirable (both positions).

Application forms obtainable (stamped, addressed foolscap envelope necessary) from Medical Officer of Health, Staff Division 2B, County Hall, S.E.1, returnable by 6th February.

Canvassing disqualifies.

National Hospital,

Queen-square, W.C.1.

HOUSE SURGEON.

Applications are invited for the post of House Surgeon. The work is concerned almost entirely with the surgery of the central nervous system, and it is desirable that candidates should have had previous experience in general surgery.

Applications, accompanied by three recent testimonials, should be sent to the undersigned not later than Tuesday, January 31st. The salary is £100 per annum, with board and lodging. GODFREY H. HAMILTON, Secretary.

St. John's Hospital, Lewisham, S.E.13.

Applications are invited for the resident appointment of CASUALTY OFFICER (Male) tenable for six months from the 1st March, 1939, at a remuneration of £100 per annum.

Applications, with copies of testimonials, should reach the undersigned by February 14th.

J. C. GILBERT, Secretary-Superintendent.

Borough of Bermondsey.

Applications are invited from fully qualified Medical Practitioners (Women—Widows or Single) for the position of ASSISTANT MEDICAL OFFICER for Maternity and Child Welfare. The salary will be at the rate of £600 per annum, rising by two annual increments of £50 to £700 per annum, and be subject to deductions under the Council's Superannuation Acts. The person appointed will be required to pass satisfactorily a medical examination. Preference will be given to applicants having special experience in the care of women and children and the person appointed will be required as a routine duty to give lectures on hygiene to audiences both of school-children and of adults, and to devote the whole of her time to the work of the Council. Further particulars of the duties can be had on application to the Medical Officer of Health.

Applications on forms to be obtained from the undersigned and accompanied by copies of not more than three recent testimonials, must be delivered to the undersigned not later than first post on Monday, 6th February, 1939, endorsed "Assistant Medical Officer."

FRANCIS J. R. MOUNTAIN, Town Clerk.

Municipal Offices, Spa-road, Bermondsey, S.E.16.

25th January, 1939.

King Edward Memorial Hospital,

EALING. (145 Beds.)

CASUALTY OFFICER AND HOUSE SURGEON (Male) required 1st March, 1939. Six months appointment with possibility of re-election for a further period. Salary £150 per annum with usual residential emoluments.

Applications, stating age, experience, and qualifications together with copies of two recent testimonials, should be sent to the undersigned by February 6th, 1939.

R. A. MUCKELWRIGHT, House Governor.

Liverpool Hospital for Consumption

AND DISEASES OF THE CHEST,
MOUNT PLEASANT, LIVERPOOL, 3.

The Committee of the Hospital invite applications for the vacant post of HONORARY PHYSICIAN to the Hospital. Candidates must be graduates of a British or Irish University, or Members of one of the Royal Colleges of Physicians. (The Honorary Senior Assistant Physician is an applicant for the post.)

Applications, endorsed "Honorary Physician," to be sent in with copies of three testimonials not later than 7th February, 1939, to the Secretary, Mount Pleasant, Liverpool, 3.

Beckett Hospital and Dispensary,

BARNSLEY. (154 Beds.)

HOUSE PHYSICIAN required immediately. Applicants must be registered and preference will be given to those who have held a previous Hospital post, and having pathological experience.

Salary £150 per annum, with board, residence, and laundry.

Applications, together with testimonials, should be sent to the undersigned.

ARTHUR L. BOURNE, Secretary-Superintendent.

24th January, 1939.

The Gloucestershire Royal Infirmary

AND EYE INSTITUTION, GLOUCESTER.
(232 Beds.)

FULL TIME ASSISTANT TO THE RADIOLOGICAL DEPARTMENT.

Applications are invited for the above post (non-resident). Salary £500 per annum.

Candidates must be registered Medical Practitioners and must hold a Diploma in Radiology.

The appointment is for one year, which may be renewed for a further period.

Further information may be obtained from the undersigned, to whom applications, stating age and qualifications, with copies of recent testimonials, should be sent on or before Wednesday, February 15th, 1939.

F. J. SYMONS, Secretary.

January 26th, 1939.

Durham County Hospital.

(100 Beds.)

MALE HOUSE SURGEON required. Duties to commence 23rd February, 1939.

Salary at the rate of £150 per annum, with board, residence, and laundry.

Appointment for six months, subject to renewal for similar period.

Applications, stating age, experience, and nationality, accompanied by three recent testimonials, should be addressed to the undersigned not later than Friday, 10th February, 1939.

NORMAN BROWN, Secretary.

The Royal Northern Infirmary,

INVERNESS.

Applications are invited for two posts of HOUSE PHYSICIAN (Male). Salary £100 per annum, board, residence, and laundry provided.

The appointments are for periods of six months, commencing early February and may be renewed.

Apply, Medical Superintendent.

County Borough of Huddersfield.

ST. LUKE'S HOSPITAL.

RESIDENT MEDICAL OFFICER.

Applications are invited from registered Medical Practitioners for above appointment, which is for one year. Salary £230 per annum, with board, residence, and laundry.

Applications, stating age, training, qualifications, and experience, should be forwarded to the Medical Officer of Health, Huddersfield, so as to reach him not later than 8th February, 1939.

SAMUEL PROCTER, Town Clerk.

Town Hall, Huddersfield, January, 1939.

Hull Royal Infirmary.

Applications are invited for the post of SECOND CASUALTY OFFICER (Male) vacant February 23rd.

Salary £150 per annum, plus board, residence, and laundry.

In addition to carrying out duties in the Casualty Department the officer appointed will act as House Surgeon to one of the Honorary Assistant Surgeons, and will thus obtain Ward and Theatre experience. He will be eligible for promotion to a more senior post when a vacancy occurs.

The appointment will be for a period of six months, but will be determinable at any time by one month's notice on either side.

Applications, giving particulars of age, experience, and nationality, together with copies of testimonials, should be addressed to the undersigned.

R. J. CARLESS, House Governor.

23rd January, 1939.

The Jessop Hospital for Women,

SHEFFIELD. (151 Beds.)

The Board of Management invite applications for the post of RESIDENT ANÆSTHETIST (Female), for a period of six months, commencing at the beginning of March.

Salary £100 per annum, together with board, residence, and laundry.

The candidate appointed will be expected to carry out other House Surgeon duties.

Membership of a Medical Defence Society is a condition of appointment.

Applications, stating age, together with copies of testimonials, should be addressed to the undersigned immediately.

DAVID OSWALD, Superintendent and Secretary.

County Council of Essex and CORPORATION OF CHINGFORD.

APPOINTMENTS OF ASSISTANT COUNTY MEDICAL OFFICER AND MEDICAL OFFICER OF HEALTH.

Applications are invited for the above appointments.

The minimum commencing salary as Assistant County Medical Officer will be at the rate of £400 per annum, and the minimum commencing salary as Medical Officer of Health will be at the rate of £400 per annum. The total salary of the person appointed will rise, subject to satisfactory service, by annual increments of £25 to a maximum of £900 per annum. An allowance at the rate of £78 per annum in respect of travelling will also be made to the successful candidate. The amounts of any increments in salary and the travelling allowance will be shared equally by the respective authorities.

The person appointed will be required to pass a medical examination, to contribute to the appropriate Superannuation Funds established by the respective authorities, and to reside in Chingford.

Applicants must be duly qualified Medical Men, with experience in Public Health duties, and hold a Diploma of Public Health.

Applicants should not be over forty-five years of age, but a candidate's period of service in the late war will be deducted.

Applications must be made on the prescribed form, obtainable from the undersigned, E. S. Holcroft, accompanied by copies of not more than three recent testimonials, which will not be returned, and should be delivered at the County Hall, Chelmsford, not later than 10 A.M. on Monday, the 6th day of February, 1939.

E. S. HOLCROFT, Clerk of the County Council.
C. HEYWORTH, Town Clerk of Chingford.

County Hall, Chelmsford, 16th January, 1939.

County Council of Durham.

EDUCATION DEPARTMENT.

ASSISTANT SCHOOL MEDICAL OFFICER.

The County Education Committee invite applications for the post of Assistant School Medical Officer (Man) to act under the School Medical Officer in connexion with the inspection of school-children and such other duties as may be required by the Education Committee.

Commencing salary £500 per annum (provided the candidate has had not less than three years' postgraduate experience), rising by annual increments of £25 to £700 per annum, together with travelling expenses according to the County Scale.

The successful candidate will be required to devote his whole time to the duties of the office and reside in or near the district to which he will be attached at a place to be approved by the Education Committee. The appointment will be subject to three calendar months' notice on either side, expiring on the last day of any calendar month. Applicants must have had experience in the work of school medical inspection and preference will be given to candidates who—

(a) Have had experience in the work of School Clinics.
(b) Have been accustomed to make reports on Mentally Defective, Physically Defective, Epileptic and other Defective Children.

The possession of a Diploma in Public Health is desirable, though not essential.

Canvassing, directly or indirectly, is prohibited and will disqualify.

A deduction will be made from the salary in accordance with the Local Government Superannuation Act, 1937, and the appointment will be subject to the candidate passing the medical examination in connexion therewith.

Forms of application, to be returned not later than Saturday, 4th February, 1939, may be obtained from the Director of Education, Shire Hall, Durham, on receipt of a stamped addressed foolscap envelope.

THOS. B. TILLEY, Director of Education.

Shire Hall, Durham, 13th January, 1939.

Warneford General Hospital, LEAMINGTON SPA. (164 Beds.)

RESIDENT CASUALTY OFFICER AND HOUSE SURGEON to one of the Hon. Surgeons required by 19th February, 1939.

Six months' appointment. Salary £150 per annum, with board and laundry.

Applications from qualified registered Medical Practitioners (single men only) should be sent together with three recent testimonials to the undersigned by Wednesday, 1st February, 1939.

EDWARD L. WIRGMAN, House Governor and Secretary.

The Royal Portsmouth Hospital, PORTSMOUTH. (Six Resident Medical Officers.)

Applications are invited for the post of CASUALTY OFFICER (Male) qualified. Salary at the rate of £130 per annum, with board, &c. To commence 12th February, 1939.

Six months' appointment. Eligible on completion of term for extension or other resident posts.

Applications, stating age, nationality, &c., and copies of three recent testimonials, to be sent to the undersigned on or before 1st February, 1939, from whom all particulars can be obtained.

B. WAGSTAFF, Secretary.

County of Derby.

APPOINTMENT OF DEPUTY COUNTY MEDICAL OFFICER OF HEALTH.

Applications are invited from registered Medical Practitioners (Male) for the appointment of Deputy County Medical Officer of Health. Candidates must possess a Diploma in Public Health and must have had administrative experience in public health.

Candidates must not be over forty-five years of age, and the officer appointed must reside in the county and devote his whole time to the work.

The appointment, which will be terminable by three months' notice on either side, will be an established post for the purposes of the Local Government and Other Officers' Superannuation Act, 1922, and the successful candidate will be required to pass a medical examination.

Salary £840 per annum, rising by annual increments of £30 to £960 per annum.

Applications, stating age, qualifications, and experience, together with copies of not more than three recent testimonials, should be sent to the undersigned not later than 4th February, 1939.

W. M. ASH, County Medical Officer.

New County Offices, Derby, 11th January, 1939.

Borough of Richmond (Surrey).

ASSISTANT MEDICAL OFFICER OF HEALTH.

Applications are invited from qualified Medical Practitioners under thirty-six years of age for the appointment of full time Assistant Medical Officer of Health at a salary of £500 per annum, rising by annual increments of £25 to £750 per annum.

Applicants must have had experience in public health administration and must hold a diploma in sanitary science public health, or state medicine.

The person appointed will be required to act under the direction and supervision of the Medical Officer of Health (who is also School Medical Officer) in carrying out the relevant statutory duties and such other duties as may from time to time be assigned to the Medical Officer of Health and School Medical Officer, and he will be responsible for organising the Casualty services in connexion with Air-Raid Precautions.

The appointment, which will be determinable by three months' notice on either side, will be subject to the Local Government and Other Officers' Superannuation Act, 1922, and to the person appointed passing a medical examination.

Applications, made on the form to be obtained at this office, must be received by me not later than the 11th February, 1939.

Canvassing, directly or indirectly, will disqualify.

EDWIN M. NEAVE, Town Clerk.

Town Hall, Richmond, Surrey, 11th January, 1939.

Hertfordshire County Council.

WARE PARK SANATORIUM.

ASSISTANT MEDICAL OFFICER.

Applications are invited for the appointment of a Male Assistant Medical Officer at the County Sanatorium, Ware Park, near Ware. Age not less than twenty-five and not more than forty years. Applicants must not be married men, and should be qualified Medical Practitioners with hospital experience, and preference will be given to those who have had experience of the institutional treatment of Tuberculosis. The appointment is for one year. Salary £300 per annum, with furnished rooms rent free, together with board, washing, light, fuel, and service.

Forms of application, with particulars, can be obtained from the Clerk of the County Council, Clerk of the Peace Office, Hertford, and must be returned duly completed before the 2nd February, 1939.

ELTON LONGMORE, Clerk of the County Council.

Clerk of the Peace Office, Hertford, January, 1939.

County Mental Hospital, Lancaster.

Applications are invited for the post of ASSISTANT MEDICAL OFFICER (Female).

Candidates must be single and under thirty-five years of age. Commencing salary £550 per annum, rising to £600 after one year's satisfactory service, with further increases on promotion, subject to a deduction of 3 per cent. under the Asylums Officers' Superannuation Act, 1909. There are no emoluments.

The selected candidate will be required to live in the Hospital, and she will be provided with board, lodging, &c., for which a charge of £150 a year is made.

The possession of a Diploma in Psychological Medicine will entitle the Officer to an additional £50 per annum.

Applications, giving full particulars, with testimonials (copies only), should be forwarded to the Medical Superintendent on or before the 2nd February, 1939.

York County Hospital. (204 Beds.)

Applications are invited for the post of HOUSE PHYSICIAN. Salary £150 per annum, with board, residence, and laundry.

Applications, stating age and previous experience, together with copies of three recent testimonials, to be sent to the undersigned not later than Wednesday, 1st February, 1939.

J. R. MACKRILL, Secretary.

City of Birmingham.

PUBLIC ASSISTANCE COMMITTEE.

ERDINGTON HOUSE.

ASSISTANT RESIDENT MEDICAL OFFICER.

The Public Assistance Committee invite applications from fully qualified Medical Practitioners for appointment as Assistant Resident Medical Officer at Erdington House, Birmingham.

The Institution, which is approved for the purposes of the D.P.M., has accommodation for approximately 1570 inmates and is set apart for the reception of all classes of mental and nervous disorder. The admission rate is 1300 per annum. Parts of the Institution are certified under the provisions of the Mental Deficiency Acts, 1913–1927. There are facilities for research on the pathological and biological side, and the appointment gives opportunities for post-graduate study.

The officer appointed will be required to assist in the general medical work of the Institution under the supervision of the Senior Medical Officers.

The appointment will be for a period of twelve months. The salary attached to the appointment will be at the rate of £300 per annum, together with full residential emoluments (rations, apartments, laundry, and attendance).

Four weeks' leave of absence will be granted to the successful candidate during the term of office.

The appointment will be subject to one month's notice on either side.

Any further particulars as to the Institution and/or duties may be obtained upon application to the Medical Officer of the Institution, Dr. H. T. Kirkland, to whom applications, stating age, experience, and qualifications, accompanied by copies of recent testimonials, should be forwarded so as to reach him not later than 10 A.M. on Wednesday, 8th February, 1939.

Canvassing in any form oral, or written, direct or indirect, will be regarded as a disqualification.

F. H. C. WILTSHIRE, Town Clerk.

Council House, Birmingham, 1, 19th January, 1939.

Surrey County Council.

PUBLIC HEALTH DEPARTMENT.

CUMBERLAND HOUSE HOSPITAL, MITCHAM (110 Beds.)

RESIDENT ASSISTANT MEDICAL OFFICER.

Applications are invited for the above appointment at a salary of £350 to £450, rising by four annual increments of £25, plus full residential emoluments valued at £125. The tenure of office is limited to five years, and the appointment is subject to deductions in accordance with the provisions of the Local Government and other Officers' Superannuation Act, 1922.

Cumberland House will be used mainly as an Auxiliary Hospital for acute patients transferred from the Council's acute hospitals to complete their treatment. Applicants must have held previous resident hospital appointments and should preferably have a higher qualification and have had experience in general practice.

Applications, stating age, qualifications, and experience, and enclosing copies of not more than three recent testimonials, should be sent to the County Medical Officer, County Hall, Kingston-upon-Thames, so as to be received not later than February 11th.

DUDLEY AUKLAND, Clerk of the Council.

County Hall, Kingston-upon-Thames, 23rd January, 1939.

Aberdeen Royal Infirmary.

Applications are invited for a vacancy in the Office of RESIDENT ANÆSTHETIST.

The appointment will be for a period of six months, with eligibility for further periods of six months. The holding of the post for a period of twelve months will be recognised for the Diploma in Anæsthetics of the Conjoint Board.

The salary is at the rate of £150 per annum, with a subsistence allowance in the event of Quarters not being available in the Hospital.

Further particulars as to the terms of appointment may be obtained from the undersigned, with whom four copies of applications, with recent testimonials, should be lodged on or before 10 A.M. on Saturday, 4th February, 1939.

JOHN A. MCCONACHIE, Clerk and Treasurer.

1 Albyn-place, Aberdeen, 21st January, 1939.

Addenbrooke's Hospital, Cambridge.

Applications are invited for the post of HOUSE SURGEON to the Special Departments with care of beds for ear, nose, and throat, eye, gynæcological, and maternity cases.

The appointment will be for six months from February 10th, 1939, but is terminable at an earlier date by one month's written notice on either side.

Salary at the rate of £130 per annum, with board, residence, and laundry.

Candidates (Male), who must be unmarried and duly registered, are requested to forward their applications, stating age, qualifications, etc., together with copies of not more than four testimonials, to the undersigned on or before Tuesday, February 7th, 1939.

J. A. BEARDSALL, Secretary-Superintendent.

County Council of the West Riding of Yorkshire.

PUBLIC HEALTH LABORATORY.

ASSISTANT BACTERIOLOGIST.

The County Council of the West Riding of Yorkshire invite applications for the appointment of Assistant Bacteriologist.

Applicants must be registered Medical Practitioners with experience of Public Health, Bacteriology, and Clinical Pathology.

The salary will be £500 per annum, rising by annual increments of £25 to £700 per annum. The commencing salary may be above the minimum in the case of a candidate having suitable experience.

The appointment will be subject to the provisions of the Local Government and Other Officers' Superannuation Act, 1922.

Further particulars and form of application may be had from the undersigned, by whom all applications, together with copies of not more than three recent testimonials, must be received not later than 13th February, 1939.

J. CHARLES MCGRATH, Clerk of the County Council.

County Hall, Wakefield, January, 1939.

Royal Lancaster Infirmary, Lancaster.

140 Beds. 4 Residents.

Applications are invited for the post of LOCUM to the SENIOR HOUSE SURGEON. Salary £1 1s. per day with board, residence, and laundry. The appointment will be for four to six weeks from 6th February. Applicants must have served at least twelve months in a resident post.

Applications, stating age, qualifications, experience, and nationality, together with copies of three recent testimonials, to be sent to the undersigned.

FRANK A. MILNES, Superintendent-Secretary.

Royal Lancaster Infirmary, Lancaster.

140 Beds. 4 Residents.

Applications are invited for the post of CASUALTY OFFICER and ORTHOPÆDIC HOUSE SURGEON. Salary £130 per annum, with board, residence, and laundry. The appointment is for six months. The posts of First and Second House Surgeon are recognised for the Surgical Practice required for the F.R.C.S. Examination and the applicant appointed will be eligible to apply for one of these posts at the first vacancy.

Applications, stating age, qualifications, experience, and nationality, together with copies of three recent testimonials, to be sent to the undersigned.

FRANK A. MILNES, Superintendent-Secretary.

Royal Lancaster Infirmary, Lancaster.

140 Beds. 4 Residents.

Applications are invited for the post of JUNIOR HOUSE SURGEON. Salary £130 per annum, with board, residence, and laundry. The appointment is for six months. The posts of First and Second House Surgeon are recognised for the Surgical practice required for the F.R.C.S. Examination and the applicant appointed will be eligible to apply for one of these posts at the first vacancy.

Applications, stating age, qualifications, experience, and nationality, together with copies of three recent testimonials, to be sent to the undersigned.

FRANK A. MILNES, Superintendent-Secretary.

Hampshire County Council.

URBAN DISTRICT OF HAVANT AND WATERLOO.
URBAN DISTRICT OF PETERSFIELD.
RURAL DISTRICT OF PETERSFIELD.

Applications are invited for the joint appointment of ASSISTANT COUNTY MEDICAL OFFICER to the Hampshire County Council and MEDICAL OFFICER OF HEALTH of the three districts named above. The possession of the D.P.H. or its equivalent is essential.

The salary is £800 a year in addition to travelling expenses. The appointment is subject to the provisions of the Local Government Superannuation Act, 1937.

Applications, with copies of not more than three recent testimonials, upon a form which with the conditions of appointment may be obtained from the County Medical Officer, The Castle, Winchester, should be sent to him as soon as possible and not later than the 4th February, 1939.

Canvassing is prohibited.

F. V. BARBER, Clerk of the County Council.

The Castle, Winchester, 17th January, 1939.

Walsall General Hospital.

The Committee invite applications from Men for the post of CASUALTY HOUSE SURGEON. Must have had previous experience in the administration of Anæsthetics.

Candidates, who must be registered under the Medical Acts, must produce three recent testimonials. The appointment will be for six months. Salary at the rate of £150 per annum. The Hospital will shortly contain 175 beds and is equipped in all Special Departments.

Applications to be sent at once to the undersigned.

WALTER FRANCOMBE, House Governor.

18th January, 1939.

Royal Manchester Children's Hospital,
PENDLEBURY, Near MANCHESTER.
(232 Beds.)

RESIDENT SURGICAL OFFICER.

Applications are invited for the post of Resident Surgical Officer. Salary £150 per annum. The appointment is for a period of six months commencing March 1st.

Candidates must be unmarried and duly registered. Previous hospital experience essential. Candidates holding, or working for, a higher surgical qualification preferred.

Applications, stating age and accompanied by copies of not more than three recent testimonials, to be sent to the undersigned not later than Thursday, 2nd February. Canvassing, directly or indirectly, may disqualify.

By order,
H. HEARDMAN, Secretary.

Ancoats Hospital, Manchester, 4.

RADIOLOGICAL OFFICER, Lady or Gentleman, whole-time appointment—non-resident—no private work allowed. Salary £400 per annum. Luncheon and tea provided. The appointment is for twelve months and is renewable. Candidates must hold the D.M.R.E. diploma.

Applications, stating age and particulars of qualifications and experience, to be forwarded to the undersigned on or before the 1st February, together with copies of three recent testimonials.

By Order of the Board,
HERBERT J. DAFFORNE,
General Superintendent and Secretary.

Birmingham United Hospital.
NEW CENTRE HOSPITAL, BIRMINGHAM.

FULL-TIME ASSISTANT TO THE RADIOLOGICAL DEPARTMENT.

Applications are invited for the above post.

The appointment in the first instance will be made for one year, the holder being eligible for reappointment annually for a further two years, when he will become eligible to be considered for appointment to the Staff as an Assistant Radiologist.

Salary £400 to £450 per annum, according to experience. Full facilities will be given for research work.

Candidates must be Registered Medical Practitioners and should possess a Diploma in Radiology.

Applications should be sent to the undersigned (from whom all further particulars can be obtained) stating age, experience, and qualifications, with copies of recent testimonials, not later than February 10th.

C. HURFORD, Secretary,
Birmingham United Hospital.
The Centre Hospital, Edgbaston, Birmingham, 15.

The Royal Hospital, Wolverhampton.
(Incorporated under Charter.)

HOUSE SURGEON required for Fracture and Orthopædic Department. Duties to commence 1st March, 1939.

The Hospital contains 300 Beds, includes the usual special departments and is recognised by the various Examining Bodies for a part of the requisite attendance on Medical and Surgical Practice. Candidates must be registered under the Medical Acts, and unmarried.

The appointment is for six months. Salary at the rate of £100 per annum. Board, furnished rooms, and laundry provided.

Applications, with copies of testimonials, to be forwarded to the undersigned.

W. H. HARPER, House Governor.
Wolverhampton, 16th January, 1939.

The Royal Hospital, Wolverhampton.
(Incorporated under Charter.)

RESIDENT ANÆSTHETIST.

Applications are invited for the post of Resident Anæsthetist. The appointment will be for six months, renewable, and the salary £200 per annum, with board and residence. Duties to commence as soon as possible.

The Hospital contains 300 Beds, at present being enlarged to 400 Beds, and is approved by the General Medical Council for part of the requisite attendance on Medical and Surgical Practice.

Applicants should provide evidence of their experience in modern anæsthetic methods; applications should be sent to the undersigned, from whom further information required about the post may be obtained.

W. H. HARPER, House Governor.
Wolverhampton, 24th January, 1939.

Hounslow Hospital, Middlesex.

Applications are invited for the appointment of ANÆSTHETIST. An honorarium of £1 1s. per session is payable.

Applications, with copies of three recent testimonials, should be addressed to the Secretary not later than February 14th. Applicants will be furnished with a list of session times, &c.

Urban District Council of Enfield.
MIDWIVES ACTS, 1902–1936.

APPOINTMENT OF CONSULTATIVE OBSTETRICIAN.

The Council invite applications for the position of Obstetrician to the Council's Consultative Antenatal Clinic to be held at the Maternity and Child Welfare Clinic, Glyn-road, Ponders End, every alternate Monday afternoon, at 2 o'clock.

Applicants must hold the degree of F.R.C.S. (Eng.) and be in consultant practice as a Gynæcologist and Obstetrician.

The fee paid will be 2½ guineas per session.

Application forms (which may be obtained from the undersigned), together with copies of three recent testimonials, must reach the undersigned not later than noon on the 17th February, 1939.

Candidates must disclose in writing whether to their knowledge they are related to any member, officer, or employee of the Council. A candidate who fails so to do will be disqualified for the appointment, and if appointed will be liable to dismissal without notice.

Candidates canvassing Members of the Council or its Committees, directly or indirectly, will be disqualified.

S. J. DABBS, Clerk of the Council.
Public Offices, Enfield, Middlesex, 23rd January, 1939.

The Southampton Children's Hospital
AND DISPENSARY FOR WOMEN.

The Board of Management invite applications for the post of RESIDENT MEDICAL OFFICER (Lady). Six months' appointment. Salary at the rate of £150 per annum, with board, residence, and laundry.

Applications, stating age and accompanied by copies of testimonials, to be sent to the undersigned not later than 17th February, 1939. The selected candidate will be required to take up her duties on 1st March, 1939.

ELLA K. MATTHEWS, Secretary.

City of Portsmouth.

RESIDENT MEDICAL OFFICER AT THE INFECTIOUS DISEASES HOSPITAL AND ASSISTANT MEDICAL OFFICER OF HEALTH.

Applications are invited from unmarried Medical Practitioners (Male) possessing the Diploma in Public Health for the above appointment. Salary £500–£700, rising by annual increments of £25, inclusive of residential emoluments which are valued at £125.

The gentleman appointed will be required to devote his whole time to the office, which will also include duties in connexion with the work of the Public Health Department as assigned to him by the Medical Officer of Health.

The position is designated as an established post under the Local Government and Other Officers' Superannuation Act, 1922, and the total salary will be subject to the statutory deduction of 5 per cent. under that Act. The successful candidate will be required to pass a medical examination.

Application forms may be obtained from and must be returned to the Medical Officer of Health, The Guildhall, Portsmouth, not later than Monday, 13th February, 1939.

Canvassing will be a disqualification.

F. J. SPARKS, Town Clerk.
The Guildhall, Portsmouth, 24th January, 1939.

Kent Education Committee.

ASSISTANT SCHOOL MEDICAL OFFICER.

Applications are invited from registered Medical Practitioners, not more than forty years of age, for the post of temporary Assistant School Medical Officer.

The successful candidate will be required to devote the whole of his time to the duties and will work under the supervision of the School Medical Officer. He must begin duties as soon as possible. The appointment will be for about three months.

Salary is at the rate of £11 a week, together with travelling and subsistence allowances.

Applications, stating age and full qualifications, accompanied by copies of three recent testimonials, must be forwarded to the undersigned not later than 4th February, 1939.

No form of application will be issued. Canvassing is a disqualification.

CONSTANT PONDER, M.D., School Medical Officer.
Sessions House, Maidstone, 24th January, 1939.

Barrow Hospital for Nervous and
MENTAL DISEASES, BARROW GURNEY,
near BRISTOL.

RESIDENT HOUSE PHYSICIAN.

Applications are invited for the post of Resident House Physician at this Hospital.

Candidates should be registered Medical Practitioners not over thirty-five years of age and should have held a resident post in a General Hospital.

The appointment is for six months from March 1st. The salary is at the rate of £200 per annum, plus full residential emoluments.

The Hospital is equipped with every facility for modern treatment and research.

Application, together with copies of two testimonials and a recent photograph, should be sent to the Physician, Barrow Hospital, Barrow Gurney, near Bristol, before February 14th.

Rochdale Infirmary and Dispensary.

(110 Beds. Three Residents.)

The Board of Management invites applications for the appointment of HOUSE PHYSICIAN (Male). The salary attached to the appointment is at the rate of £150 per annum with board, residence, and laundry. The duties include work in the Out-patient, Aural, Ophthalmic, &c., Departments as well as in the wards. The Hospital covers a large industrial area, and affords excellent opportunity for experience.

Applications, stating age, nationality, with three recent testimonials, to be sent to the Secretary, Rochdale Infirmary.

W. WYNNE, Secretary.

Infirmary Office, Rochdale.

Blackburn Royal Infirmary.

(244 Beds. Five Residents.)

RESIDENT HOUSE SURGEON (Male) required, at a salary of £175 per annum.

Applications, with copies of testimonials, stating age, nationality, experience, &c., to be sent to the undersigned as early as possible.

T. DEWHURST, General Superintendent and Secretary.

Royal Infirmary, Blackburn.

This Institution is recognised for the Surgical Practice required for the F.R.C.S. examination.

Derbyshire Royal Infirmary, Derby.

(General Hospital. 362 Beds.)
Recognised under F.R.C.S. regulations.

Applications are invited for the post of HOUSE SURGEON for the Gynæcological Department (Male, single).

Candidates must be qualified and registered under the Medical Acts.

Salary will be £150 per annum, with apartments, board, &c.

Applications, with copies of testimonials, to be sent to the undersigned.

Duties to commence 20th February, 1939.

ARTHUR TAYLOR, Superintendent and Secretary.

23rd January, 1939.

PARIS HERTFORD BRITISH HOSPITAL

(50 Beds.)
Medical, Surgical, and Maternity.

Required at once RESIDENT MEDICAL OFFICER. Salary £150 per annum, with board and residence. Appointment for one year and may be renewed. Knowledge of French an advantage.

Apply with testimonials to the Secretary, 48, Rue de Villiers, Levallois-Perret, Seine.

The Salisbury General Infirmary, Wilts.

(200 Beds. 4 Residents.)

Applications are invited for the following posts, vacant on 1st March, 1939.

Two HOUSE SURGEONS. Salary £125 per annum, with board, residence, and laundry. Tenable for a period of six months and renewable.

Candidates (Male) must be unmarried.

Applications, stating age, nationality, qualifications, &c., together with copies of testimonials, should reach the undersigned not later than Saturday, 11th February, 1939.

JOHN WILLIAMS, Secretary-Superintendent.

West Kent General Hospital

(Incorporated),
MAIDSTONE. (135 Beds.)

Applications are invited for the post of HOUSE SURGEON, who must be a Male of British nationality and unmarried.

Salary at the rate of £175 per annum, with board, apartments, and laundry.

Candidates must possess registered qualifications.

Applications, stating qualifications and experience, together with copies of testimonials, should be sent to the undersigned not later than the 2nd February, 1939. The successful candidate will be required to take up residence on 11th February, 1939.

EDWARD J. GREGG, House Governor and Secretary.

The Royal Army Medical Corps

ASSOCIATION, 85, Eccleston-square, S.W.1 (Telephone: Victoria 2722), supplies qualified Dispensers, Book-keepers, Laboratory Assistants, Sanitary Assistants, Male Nurses, Mental and Special Treatment Orderlies, Dental Clerk Orderlies, Porters, Caretakers, &c., without charge to respective employers.

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experienced in hospital work and well acquainted with modern methods of infant feeding, is invited to co-operate as Medical Adviser to London Company engaged in pharmaceutical-dietetical work on strictly scientific and ethical lines. Continuance of medical activity essential. Position carries adequate remuneration. Offers will be treated in the strictest confidence. Applications in detail to No. 549, THE LANCET Office, 7, Adam-street, Adelphi, W.C.2.

Medical Officer required for service

with large Company operating in the Near East, possessing well organised Medical Service with staff of British doctors including Specialists, Nursing Staff, Hospitals, &c. Applicants must be of British parentage and have British qualifications, and must have had five years actual practice.

Administrative experience an advantage. Age not more than thirty. Commencing salary £800 per annum progressive, with Provident Fund benefits; three yearly agreements; free furnished quarters; free passage out and home.

Apply, with copies of testimonials (not returnable), to Address No. 550, THE LANCET Office, 7, Adam-street, Adelphi, W.C.2.

British Colony: Easily worked

PRACTICE, farming community, growing district, good climate. Income between £500 and £600 likely increase. Educational and sporting facilities. Cheap living. Enquiries No. 551, THE LANCET Office, 7, Adam-street, Adelphi, W.C.2.

For Sale.—The practice of the late

Dr. J. C. T. Crowden, of Keadby, near Scunthorpe, Lincs., who died 23rd January, 1939. Country Practice near busy industrial town. Figures being extracted.—Apply, R. A. C. SYMES & Co., Solicitors, Scunthorpe, Lincs.

Wanted. — Practice in South-west

England. Minimum value £1600. Good house and large garden essential. No agents.—Address, No. 543, THE LANCET Office, 7, Adam-street, Adelphi, W.C.2.

HULL.

For Sale, old-established non-panel

PRACTICE. Average receipts last three years, £2700. Good introduction guaranteed. Good House in central position to Sell or Let.—Address, Stuart & Smith, Solicitors, Bowlalley-lane, Hull.

Medical Practice for Sale, near Leeds.

Over 2000 panel; house to rent.—Address, No. 545, THE LANCET Office, 7, Adam-street, Adelphi, W.C.2.

County Borough of East Ham.

TOWN HALL ANNEXE.

Tenders are hereby invited for MEDICAL REQUISITES, SURGICAL AND DENTAL EQUIPMENT, in connexion with the above.

Schedules and Forms of Tender may be obtained from the Town Clerk, Town Hall, East Ham, E.6, on application, accompanied by a deposit of 3 guineas.

Sealed tenders on the form provided must be delivered to His Worship the Mayor at the Town Hall, East Ham, E.6, not later than first post on Friday, 10th February, 1939.

No tender will be received except in a plain sealed envelope endorsed "Tender for Medical Requisites, Surgical and Dental Equipment, Town Hall Annexe," but which shall not bear any name or mark indicating the sender.

The Council do not bind themselves to accept the lowest or any tender.

E. W. JOSLIN, Town Clerk.

Town Hall, East Ham, E.6, 24th January, 1939.

Several Good Secondhand Microscopes

and Objectives, by Ross, Zeiss, Watson, &c., to be cleared at very low prices. Details on application.—City Sale and Exchange (1929), Ltd., 93–4, Fleet-street, E.C.4.

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London.—Cora Hotel,

Upper Woburn-place, near B.M.A Headquarters. Accommodates 235 visitors. Modern comforts.

Excellent table. A.A. and R.A.C. recommended.

Room, bath, and table d'hôte breakfast, 8s. 6d.

Resident Patients.—Doctors desiring

accommodation for private patients (mental, neurasthenic, invalid, &c.) may have, post free, illustrated BOOKLET describing residences, &c., of numerous colleagues in all parts—town, country, and seaside—who receive such patients.—Apply, Manager, British Medical Bureau, Tavistock House South, Tavistock-square, London, W.C.1.

Enfield.—For Sale, £1900. Modern

well-built FREEHOLD RESIDENCE. 8 rooms, large garage. Corner site facing public library, near main shopping district and bus terminal. Excellent location for doctor or dentist. Telephone: ENFIELD 0526.

ST. ANNES-ON-SEA—FOR SALE.

A magnificently built, stone front RESIDENCE, known as "Chaseside," situated at corner of St. George's-square and Beach-road, overlooking The Ashton Gardens. Ideal position and strongly recommended as especially suitable for high-class nursing-home or some such institution.

Contains 4 entertaining rooms, 12 bedrooms, 3 bathrooms (staff quarters included), kitchen, scullery, larder, pantry, cellars, out-houses and all other conveniences. Annual ground rent £20. Price £3500—Further particulars, address, W. LANE, Chaseside, St. George's-square, St. Annes-on-Sea. Phone 292.

Harley Street (Close). — Up-to-date unfurnished service FLAT in quiet block. 1 bedroom, 1 reception room, and bath. Cold and hot water. £125 per annum, inclusive.—DRYDEN CHAMBERS, 119, Oxford-street, W.1. (GER. 4178.)

Harley Street and District.—A number of excellent CONSULTING ROOMS are available for full and part-time use at moderate rents. Particulars on application.—ELGOOD & CO., 10, Henrietta-place, Cavendish-square, W.1. Lang. 2601.

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3. SUFFOLK.—Market Town.—Old-estab. PRACTICE producing about £1100 p.a. Panel of about 1470 patients and 290 P.M.S. patients. Two appointments stated to be transferable. Well-built, recently redecorated house with 7 bedrooms, &c. Freehold for sale. Premium £2000.
4. WORCS.—Unopposed Country PRACTICE.—Receipts about £1200 p.a. Panel of 740 patients producing about £460 p.a. Detached house in 2 acres of garden. Ample accommodation. Freehold £1900. Premium 2 years' purchase.
5. SURREY.—Within 12 miles of London.—Developing area. PRACTICE estab. by Vendor 13 years ago and producing about £640 p.a. with selected panel of 220 patients. Scope for increase. Attractive detached house with ample accommodation. Freehold for sale or would rent. Premium £1100.
6. PEMBROKESHIRE.—Old-estab. PRACTICE producing about £1900 p.a. Panel of 770 patients and appointments produce about £520 p.a. Good house with 7 bedrooms and good garden. Freehold £1100 of which most can be obtained on mortgage. Premium £3200. There is stated to be scope for major surgery.
7. SOUTH EAST LONDON.—Old-estab. PRACTICE averaging for past 3 years over £1800 p.a. Panel of 1130 patients. Good double fronted house with 2 reception and 5 bedrooms. Separate professional accommodation. Rent £120 p.a. Premium 2 years' purchase.
8. HERTS.—DEATH VACANCY.—Old-estab. PRACTICE producing £1800 p.a. Panel 1600 patients. Good house for sale or rent. Premium 1½ years' purchase or near offer.
9. SUSSEX.—Delightful Country District.—Very old-estab. mixed PRACTICE held by vendor 8½ years. Receipts for past 3 years average £1527 p.a. Panel of 589. Appointments bring in about £40 p.a. Fees 3s. 6d. to 1½ gns. Exceptionally attractive house in own grounds (6–7 bedrooms, 2 bathrooms, &c.). Premium 2 years' purchase. Good sporting and social amenities. Schools within reach. Vendor going abroad.
10. CAMBS.—Country Town.—Old-estab. increasing mixed-class PRACTICE averaging about £2000 p.a., including £500 from panel and £70–80 p.a. from appointments. Fees 2s. 6d. to 21s. House contains 2 reception, 3 bedrooms, &c. Electricity. Garden. Rent £80 p.a. Premium 1½ years' purchase. All kinds of sport and good educational facilities.

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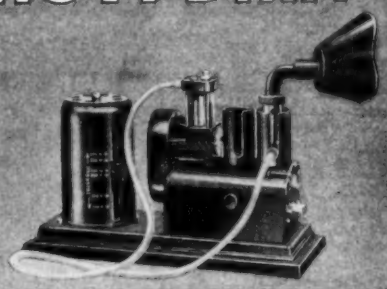

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It is useful as a general tonic and in cases of Anæmia and Malnutrition.

SAMPLES AND PRICES ON APPLICATION.

DUNCAN, FLOCKHART & CO.

EDINBURGH and LONDON

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NEVROCAL

(Squire's Glycerophosphate Syrup with Strychnine)

A combination of the essential minerals, Iron, Calcium, Potassium and Sodium with assimilable Phosphorus and Strychnine

Indicated in cases of

Nervous Irritation Depression Lack of Energy

and

Particularly suitable during the convalescence from Influenza

In 6 oz. and 12 oz. bottles. Dose: Two teaspoonfuls three times a day.

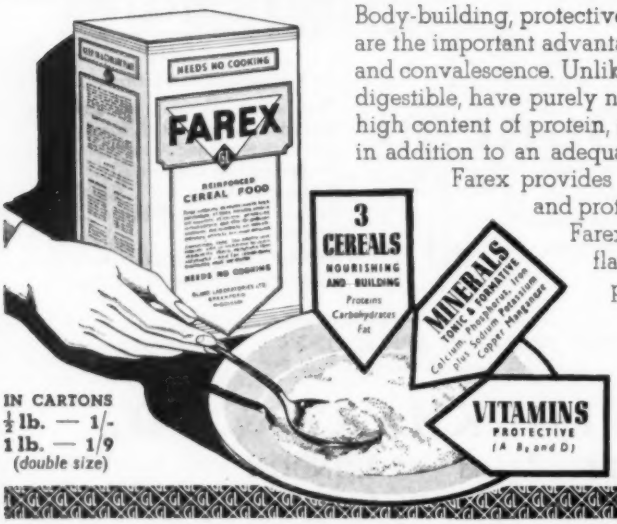
SQUIRE & SONS, LTD.

Chemists on the Establishment of the late King George V.

413, OXFORD STREET, LONDON, W.1

Telephone: MAYFAIR 2307 (2 lines) Telegrams: SQUIRE, WESDO, LONDON, W.1

FAREX — the *light diet* which protects and builds



Body-building, protective—and highly digestible; these are the important advantages of Farex as a diet in illness and convalescence. Unlike the usual 'slops' which, though digestible, have purely negative advantages, Farex has a high content of protein, minerals and vitamins A and D, in addition to an adequate proportion of carbohydrate. Farex provides energy, builds or repairs tissue and protects against infection. Moreover, Farex is ready-to-serve, and can be flavoured to individual taste. The patient *enjoys* Farex—a valuable psychological factor adding to the rapidity with which he recovers strength and appetite.

IN CARTONS
½ lb. — 1/-
1 lb. — 1/9
(double size)

PRODUCT OF THE GLAXO LABORATORIES

GLAXO LABORATORIES LTD., GREENFORD, MIDDX. BYRon 3434

STILBOESTROL B.D.H.

The introduction of Stilboestrol B.D.H. marks an important advance in the treatment of all conditions of follicular hormone deficiency; it is stated that 'the synthetic substance stilboestrol is as effective as the naturally occurring oestrogens in the treatment of pathological conditions in human patients' (Brit. Med. Journ., January 7th, 1939, p. 10).

CLINICAL INDICATIONS

Menopausal disturbances — Dysmenorrhoea
Amenorrhoea — Pruritus Vulvæ
Inhibition of lactation

With Stilboestrol B.D.H. full therapeutic activity is obtained by oral administration alone; moreover the cost of treatment with Stilboestrol B.D.H. is much less than that with the natural hormone.

STILBOESTROL B.D.H. IS ISSUED AT THE FOLLOWING PRICES :—

Tablets for oral administration		Solution in ampoules (1 c.c.)	
25 x 0.5 mg.	4/3 per bottle	6 x 1 mg.	4/6 per box
100 x 0.5 mg.	12/9 per bottle	12 x 1 mg.	8/- per box
25 x 1 mg.	7/6 per bottle	1 x 5 mg.	1/6 per box
100 x 1 mg.	22/6 per bottle	6 x 5 mg.	7/6 per box
25 x 5 mg.	22/6 per bottle	12 x 5 mg.	14/6 per box
100 x 5 mg.	67/6 per bottle		

Descriptive booklet available on request

THE BRITISH DRUG HOUSES LTD. LONDON N.1

Telephone: Clerkenwell 3000 Telegrams: Tetradome Telex London

SHor/S 48

For Effective Control of Pain

AMONG the many and diverse analgesics which have been evolved by modern chemical research, acetyl-salicylic acid retains its reputation as one of the safest and most effective. Its tendency to liberate salicylic acid—the irritant properties of which are well known to physicians—has, however, caused many to hesitate to employ it as widely as it deserves. Exhaustive trial in hospital and private practice proves that "Alasil" definitely solves the problem of administering acetyl-salicylic acid in an effective form, being free from the risk of irritating the stomach or bowels or of causing general reactions.

A supply for clinical trial with full descriptive literature sent free on request.

In "Alasil" the desirable therapeutic effects of acetyl-salicylic acid are well exhibited by its calcium acetyl-salicylate moiety, while the presence of "Alocol" (Colloidal Hydroxide of Aluminium), a powerful gastric sedative and antacid, obviates any tendency to gastric irritation. The superior absorbability of "Alasil" over ordinary salicylate compounds and its freedom from the risk of liberating free salicylic acid in the stomach have been well proved by careful experimentation. "Alasil" can be prescribed with perfect safety to patients of all ages and in larger doses than ordinary salicylate compounds.

A. WANDER, LTD., Manufacturing Chemists,
184, Queen's Gate, London, S.W.7.
Laboratories and Works: KING'S LANGLEY, HERTS.

ALASIL

M269

DETOXICATION
by ADSORPTION

KAYLENE-OL

PLUS
EVACUATION

The product with the dual therapeutic value

- Adsorbs and soothes, by virtue of its Kaylene content.
- Counteracts intestinal stasis by means of its lubricant paraffin constituent.

INDICATIONS: Chronic Colitis, Intestinal Toxæmia and Stasis.

IMPORTANT . . . . Kaylene-ol does not contain aluminium hydroxide or other alkalis. Therefore, Kaylene-ol does not interact to liberate soluble aluminium salts or remove the essential hydrochloric acid either by neutralisation or adsorption.

Samples and literature from the sole manufacturers:—

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Milk can be monotonous

to the patient who is on a liquid diet, as the medical practitioner well knows.

There is a delicious alternative!

Allenburys Diet

A preparation which, made from full-cream milk and whole wheat, has a more varied composition than that of milk, is made easily assimilable by partial digestion during manufacture, and has an attractive flavour. This delicate flavour may be varied by the addition of Coffee, Cocoa, etc., if required. **In tins at 2/1, 4/-, & 7/6**

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well-tolerated cardiac and vascular tonic and diuretic. No alkaline taste.

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in hypertension, arteriosclerosis, stenocardial and asthmatic states, senile deafness, cardiac and vascular disturbances on a syphilitic foundation.

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in hypertension when iodine is badly tolerated.

Prophylactic of threatening apoplexy.

Tubes of 20 tablets.

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HAY FEVER

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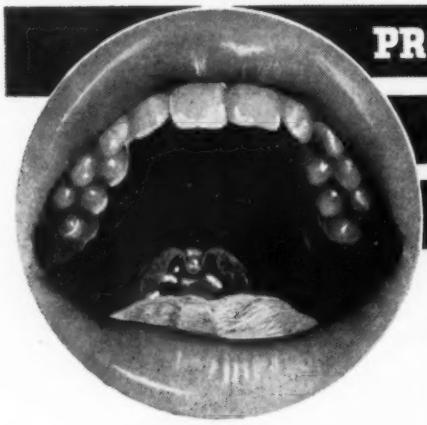
CLASSICAL ETHICAL PRODUCTS

NORMACOL

A purely vegetable Product for the treatment of Constipation

A British made "NORGINE" Product



A Physician's sample of T.C.P. Antiseptic and literature will gladly be sent on request.

PROPHYLAXIS OF COMMON WINTER RESPIRATORY INFECTIONS ☆ ☆ ☆

Antiseptic gargles and sprays have an important place in the prevention of colds, tonsillitis and other winter ailments. But, for optimum efficiency, the antiseptic used must have certain "plus" features, in addition to high bactericidal properties. T.C.P. is an ideal antiseptic for this purpose, because it has so many of these "plus" characteristics. Chief among them are *stability* — the maintenance of germicidal efficiency in the presence of organic matter, saliva, blood, pus, etc.; *safety*—T.C.P. is neither irritant nor caustic; *penetrative power*—for the relief of congestion and the stimulation of capillary circulation and phagocytosis; and *analgesic action*—invaluable in painful throat conditions.

FOR ROUTINE PROPHYLACTIC GARGLING *PRESCRIBE*

BRITISH ALKALOIDS LTD.
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T.C.P. REGD. THE *plus* ANTISEPTIC

CHOCOLATE FOR DIABETICS

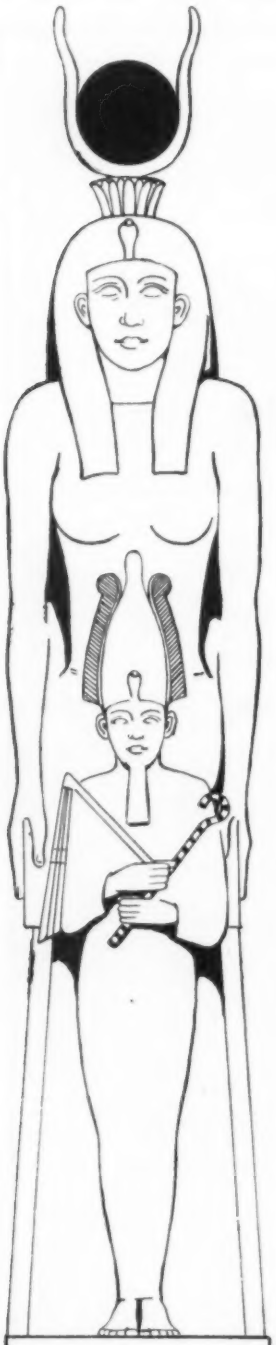
—a misunderstanding

There has been some confusion regarding Cadburys Special Chocolate and their Fine Dessert Chocolate. Many people have gained the impression that the latter is equally suitable for diabetics. But this is not the case. 'Fine Dessert' is a normal chocolate of the 'less sweet' type, and all chocolates of this kind contain sugar. Special Chocolate is Sugar Free and therefore a suitable addition to the dietary of diabetics.

* * *

Further details and analysis with a sample of this Special Chocolate will be gladly forwarded to any member of the medical profession. Please write to the Bournville Laboratories, Bournville.

CADBURY BROS · BOURNVILLE · ENGLAND



ISIS holding a Figure of Osiris between her wings.

Before and After Pregnancy

THE results of modern ante-natal care have emphasized the importance of proper nutrition of the expectant mother, in securing a normal pregnancy, labour and puerperium and in endowing the infant with an initially sound constitution.

The use of 'Ovaltine' throughout pregnancy goes far towards ensuring this ideal state of nutrition. 'Ovaltine' is a complete food, containing well-balanced proportions of protein, carbohydrate and fat, and is rich in the vitamins A, B (complex) and D and in readily assimilable calcium, phosphorus and iron. Quickly available energy is supplied by its high maltose content.

'Ovaltine' is delightful to the taste and appeals to the often capricious appetite of the pregnant woman. It is so readily digestible that unsettled digestion does not preclude its use.

'Ovaltine' given daily during pregnancy, definitely ensures that the foetus obtains sufficient nourishment, while sparing the maternal tissues from dangerous deprivation. During lactation its use enriches the milk and permits the mother to continue adequate feeding until the normal time for weaning occurs. Its tonic stimulating properties assist the general well-being of the mother.

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TONIC FOOD BEVERAGE

A liberal supply for clinical trial sent free on request.

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M286

CODOFORME

BOTOL

Each tablet is equivalent to
CODeine - - - - - 1/11 grain.
Brom**OFORM** - - - 4 minims.
Adjuvent Substances:-
Tinct Belladonna - 1 minim.
Tinct Aconite - - - 1 minim.

AN ABSOLUTELY SAFE METHOD OF USING BROMOFORM IN THE TREATMENT OF COUGH

Adults - - - - - 3 tablets daily.
Children - - - - - 2 tablets daily.

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The Vicious Circle in Hæmorrhoids

Effectively Broken

First there is marked relief from pain and irritation. The suppositories afford this alleviation not by narcotic or analgesic drugs but by their emollient and protective effect.

Under this soothing influence inflammation subsides; thus congestion is reduced; then pressure-pain disappears and the patient obtains genuine relief from the most distressing symptoms. The tendency to bleeding diminishes as venous stasis is relieved and the return circulation is improved.

By softening the fæces the suppositories promote easy evacuation; so the patient loses his fear and is helped back to regular bowel action.

This sequence of good effects follows without the occurrence of any unpleasant, dangerous or systemic disturbance.

In this entirely mechanical and rational way, Anusol Suppositories provide freedom from the distressing symptoms of hæmorrhoids and other inflammatory and painful conditions in the ano-rectal region.

ANUSOL
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Hæmorrhoidal Suppositories

Available also in Ointment form

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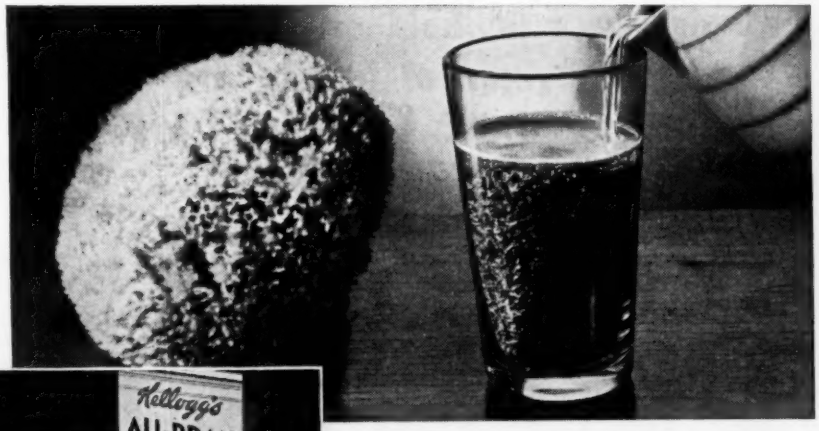
WHAT ARE THE ADVANTAGES OF BRAN AS A LAXATIVE?

CLINICAL TESTS show that, in the treatment of common constipation by increasing the intake of "bulk" in the diet, bran in the pleasant form of Kellogg's All-Bran gives the most favourable results.

The advantages of All-Bran as a laxative food may be summarized briefly as follows: (1) The "bulk" in All-Bran is absolutely non-irritant but does not break down as readily as does the bulk matter of fruits and vegetables, and is therefore more effective. (2) Its continued use does not reduce its laxative effect. (3) It is a good source of Vitamin B_1 and also contains iron. (4) Being a food rather than a medicine, the "psychological" effect of All-Bran is helpful: patients appreciate the fact that it is a pleasant, "natural" treatment which need not interfere with their normal mode of life.

Kellogg's All-Bran may with advantage be prescribed in all cases where an increase in the amount of "bulk" in the diet is indicated. Within the body, it absorbs water and softens like a sponge. This water-softened mass gently but effectively aids elimination — gently exercises the digestive tract. Eaten regularly, All-Bran promotes thorough evacuation of the bowel contents without strain on the internal organs.

All-Bran may be served as a cereal with milk or cream, or cooked into appetising scones, bread, etc. It may also be taken in combination with other cereals or sprinkled over salads and other foods. To assure maximum effectiveness, plenty of fluids should be taken, preferably between meals. All-Bran is obtainable from all reliable grocers. A packet will be sent free on request to any qualified practitioner. Inquiries should be addressed to: Kellogg Company of Great Britain Ltd., Stretford, Manchester.



All-Bran is not unlike a sponge in its absorbency and softness and to some extent also its effect on the intestines resembles the cleansing action of a water-softened sponge. The amazing softness and absorbency of All-Bran is strikingly shown when a small quantity is dropped into a tumbler and water added. It will at once be seen how readily All-Bran takes up the water forming a large smooth mass.

In Convalescence after Influenza, Pleurisy, Pneumonia, Bronchitis

The soothing, inflammation-allaying properties of 'Angiers' and its general tonic effect especially commend its use in convalescence from acute respiratory affections. It will clear up any remaining catarrh, whether of the respiratory or digestive organs. It will restore tone to the digestive functions, and greatly improve assimilation and nutrition.

An absolutely perfect emulsion, it is presented in a form pleasing to the taste, and acceptable to the most fastidious. Moreover, it can be administered to advantage in conjunction with other remedies, such as salol, aspirin, bismuth, etc.

'Angiers' is made with petroleum specially purified for internal use. It is the original petroleum emulsion, the result of many years of careful research and experiment.

Free Samples to the Medical Profession

THE ANGIER CHEMICAL COMPANY, LIMITED
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ANGIERS
BRAND EMULSION

High Blood Pressure Metabolic Disorders and the Anaemias

constitute a "tripod" of Modern Disease

By dilating the peripheral blood vessels, Dr. Buergi's preparation of chlorophyll ('Phyllosan' tablets) becomes a therapeutic weapon in the treatment of high blood pressure. As it also *augments the force of the heart beat*, the circulation is adequately maintained.

By stimulating the metabolic exchanges, Dr. Buergi's preparation exercises a *revitalizing* effect upon the human organism. The lay expression "*vitality*" has received a technical rechristening in the term "*metabolism*."

To speed up the latter is to renew the former. Bodily sluggishness and mental retardation are nowadays linked up with low basic metabolic rates—as for example, in myxœdema.

Finally, by reason of its chemical affinities to hæmoglobin and its "catalyst" action, chlorophyll is able to *stimulate the blood-forming apparatus*. The indications for the use of 'Phyllosan' tablets in anæmic conditions are soundly rooted in laboratory tests and abundantly confirmed in the clinic.

Members of the Medical Profession are invited to apply for Free Trial supply of 'Phyllosan' tablets

and for a pamphlet entitled
"Hyperpiesia, Metabolic Disorders and the Anaemias,"
a Review of Experimental and Clinical Evidence for the use of

'PHYLLOSAN'

BRAND TABLETS

in Modern Therapeutics

NATURAL CHEMICALS LTD., 12 CLIPSTONE STREET, LONDON, W.1

Hæmatopoiesis

ETHICAL PRODUCTS OF DISTINCTION — Evans

HEPATEX

Highly concentrated extract of fresh liver for oral use.

Potent
★
Palatable
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Readily Assimilated

Hepatex represents the full activity of 16 times its weight of fresh liver.

A 4-oz. bottle of Hepatex is sufficient for, at least, a week's initial treatment of Pernicious Anæmia or three weeks' maintenance.

Price 12/6 per bottle.

PREPARED AT THE EVANS BIOLOGICAL INSTITUTE BY

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Literature and samples free on application

ELIXIR VITAMINÆ (HEWLETT'S)

A really palatable tonic Elixir for patients of all ages, designed to restore appetite and provide the necessary minerals and vitamins to promote speedy convalescence. Consisting of Vitamins A and D, Iron, Calcium, Glycerophosphates, &c., in a flavoured syrup containing Glucose. Specially suitable for children.

Doses.—Children, 1 to 2 teaspoonfuls.
Adults, 2 to 4 teaspoonfuls.

To be taken two or three times a day in water.

LIN. BETULÆ CO. (HEWLETT'S)

Therapeutically equivalent to several times its weight of Sodium Salicylate without causing headache, tinnitus, &c. Has proved most useful in the external treatment of pure Rheumatism, Sciatica, Lumbago, &c. The external dose is about one drachm rubbed over the affected parts.

In 5, 10, 22, 40, and 90 oz. Bottles.

MIST. PRUNI VIRG. CONC. (HEWLETT'S)

A valuable stimulant and expectorant cough mixture, containing Carbonate of Ammonium, Ipecacuanha, Senega, Squill, and Syrup of Wild Cherry Bark. Quite free from Morphine, Opium, or poisons, so can be safely administered to children.

Dose: 1 to 2 drachms diluted.
In 22, 40, and 90 oz. Bottles only.

UNG. IODERMIOL TRADE MARK

It has been found most useful for Enlarged Glands, Rheumatic and Gouty Affections, Lumbago, Sciatica, Swollen and Stiff Joints, Skin Diseases, &c.

UNGUENTUM IODERMIOL et METHYL SALICYL. (HEWLETT'S)

Containing about 5% of Iodine, in a stainless non-irritating form, together with 5% Methyl Salicylate. Useful in the treatment of Enlarged Joints, Synovitis, Rheumatoid Affections, &c.

VERONIGEN TRADE MARK

A liquid preparation of the Hypnotic Barbitone or Diethyl-Barbituric Acid has long been desired as a useful means of procuring sleep. When given in reasonable doses it is claimed that it does not produce any toxic symptoms whatever, and in ordinary cases of insomnia one fluid drachm of Veronigen is quite sufficient dose for an adult.

Dose for Adults.—One fluid drachm diluted, about one hour before going to bed.
For Nervous Sleeplessness in Children.—10 to 20 minims diluted.

MIST. TUSSI RUB. CONC. (HEWLETT'S)

A favourite and economical cough mixture, containing Hydrobromic Acid, Chlorodyne, Dilute Hydrocyanic Acid, &c. Most successful in allaying post-influenza coughs that are so persistent. One or two ounces diluted with water to make eight ounces forms one of the most effective and elegant mixtures that can be made, and certainly the least expensive.

In 22 oz., 40 oz., 4½ lb., and 8 lb. Bottles only.

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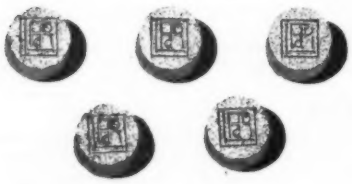
RUBIAZOL

azo dye compound for precise action and absence of systemic reactions



high activity at low dosages
no clinical manifestations of toxicity
for prophylaxis and treatment.

HÆMOLYTIC STREPTOCOCCAL INFECTIONS

MENINGOCOCCI

STAPHYLOCOCCI

BACILLI COLI

BRUCELLÆ

clinically the most acute cases respond to 2.40 grammes (36 grains) per day administered orally.

Tubes of 20 Tablets at 0.20 gramme (3 grains) — Boxes of 5 Ampoules of 5 cc. (5% solution Intramuscular) and clinical packings.

Literature and Samples on request

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Effective management of

MEASLES

THE DANGER OF SEVERE or fatal complications—chiefly bronchopneumonia—of measles, justifies the application, wherever measles appears, of measures that have been recognized to be of value in controlling the severity of the disease.

"Immune Globulin (Human) *Lederle*" possesses several advantages over other materials applicable to the control of measles:

—it is readily available, stocked for epidemic emergencies;
—its activity is uniform: the protective power in pooled extracts, each prepared from about 1000 placentas, is fairly constant;
—a relatively small dose is required.

A recent study* gave the following results (infants under six months being excluded from this table, since they have some natural immunity):

	6 mo.-1 yr.	1 yr.-2 yrs.	2 yrs.-5 yrs.	5 yrs.-10 yrs.	Total
Number given "Immune Globulin"	105	101	122	48	376
Did not get measles	68	36	42	22	168
Per cent.	64.8	35.6	34.4	45.8	44.7
Developed milder measles	28	53	51	15	147
Per cent.	26.7	52.5	41.8	31.3	39.1
Developed unmodified measles	8	10	27	9	54
Per cent.	7.6	10	22.1	18.8	14.4

The purpose of giving Immune Globulin is usually not to prevent altogether the infection with measles virus but to keep the disease limited to a mild uncomplicated course that will, nevertheless, leave the child with long-lasting subsequent immunity. In the 206 children who contracted measles, 147 were mild cases —71.4%!

"Immune Globulin (Human) *Lederle*" is available in 2 cc. and 10 cc. vials.

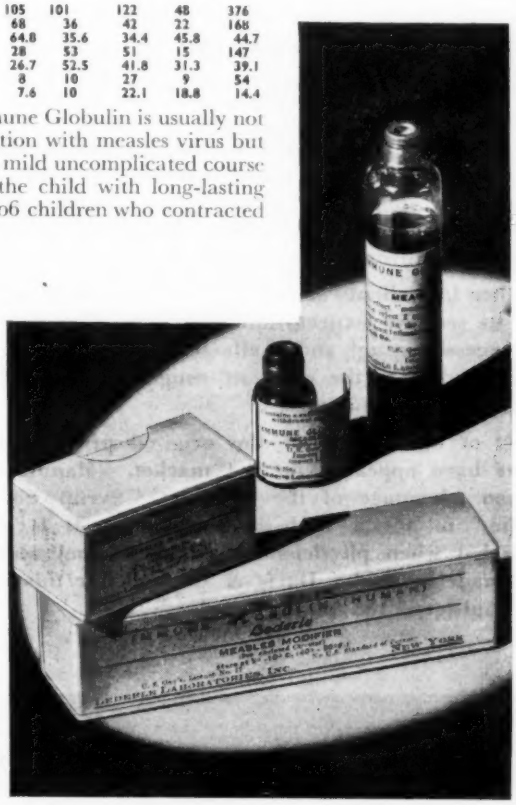
*CHICAGO BOARD OF HEALTH

A Product of Lederle

LABORATORIES, INC., NEW YORK
DISTRIBUTED IN ENGLAND BY

Chas. F. Thackray LTD

The Old Medical School, LEEDS. *Telegrams and Cables* "Aseptic Leeds." *Telephone* 20085 (3 lines).
252 Regent Street, LONDON, W.1. *Telephone Telegrams and Cables* "Regent 1884 London." *Agents for Eire* WILCOX JOZEAU & CO. 19 Temple Bar, Dublin



'COSYLAN'

The Original

SYRUP COCILLANA COMPOUND

(P., D. & CO.)

SYRUP COCILLANA COMPOUND (COSYLAN) P., D. & Co. has abundantly justified itself as an efficient remedy for the relief of an irritating cough and, in fact, in any condition caused by bronchial irritation in which the cough is excessive and the secretion and expectoration scanty.

Cocillana is an expectorant of the ipecacuanha type, but it is superior to ipecacuanha because it relaxes the dry congested bronchial mucosa into a freely secreting membrane without even a suggestion of nausea or vomiting since it has a selective affinity for the mucous glands of the bronchi and is excreted through the respiratory tract.

The other ingredients are so blended with cocillana as to enhance its sedative expectorant action, to allay irritation, to quiet excessive cough and to alleviate pain and the "raw" sensation incident to the stage of congestion in bronchial and laryngeal inflammations.

Because of the success of the original product several imitations have appeared on the market. Manufacturers have taken advantage of the fact that "Syrup Cocillana Compound" is not a trade-marked name. It is a fact, however, that when physicians prescribe it they want the original, made by Parke, Davis & Co., and for this reason we have registered the name "Cosylan."

Formula

Each fluid drachm contains:

Tinct. Cocillana ...	5 mins.
Tinct. Euphorb. Pilulif.	15 mins.
Syrup Wild Lettuce ...	15 mins.
Fluid Extract of Squill	$^1/_4$ min.
Fluid Extract of Senega	$^1/_4$ min.
Tartarated Antimony	$^1/_{184}$ gr.
Cascarin (P., D. & Co.)	1 gr.
Menthol...	$^1/_{100}$ gr.
Ethylmorph. Hydrochlor	$^3/_{32}$ gr.

Dosage

The adult dose is half to one teaspoonful, preferably undiluted, to be swallowed slowly three or four times daily.

MEDICAMENTA VERA P D & Co

PARKE, DAVIS & COMPANY.

50 BEAK STREET : LONDON, W.1

Laboratories : Hounslow, Middlesex *Inc. U.S.A. Liability Ltd.*

The Lister Institute
OF PREVENTIVE MEDICINE

Anti-Pneumococcus Serum

(Type 1) Concentrated

Anti-Pneumococcus globulin solution is prepared from the serum of horses that have been immunized with virulent cultures of Type 1 pneumococcus. Early administration of the globulin solution in cases of lobar pneumonia (Type 1) is of the greatest importance, because the antibody exerts its maximum effect when it is given within the first three days of the onset of the illness.

DOSAGE—If possible, the patient should receive an initial dose of at least 20,000 units, followed by 10,000 units every eight hours until definite signs of clinical improvement are observed. The globulin solution should be injected intravenously.

In ampoules of 10,000 units, **15/-** each

In circumstances where the concentrated product cannot be used owing to its cost, a natural serum is advisable. Intramuscular injections are to be preferred when the natural serum is used, and, according to reports from various sources, may be injected to give satisfactory results.

In ampoules of 4,000 units, **4/-** each
" " 10,000 " **10/-** "

Sole Distributors for the Lister Institute:

Allen & Hanburys Ltd.

London, E. 2

ELI LILLY AND COMPANY LIMITED

Pharmaceutical and Biological Products

TRADE MARK **'LEXTRON'** BRAND

Liver-Stomach Concentrate with Iron and Vitamin B Complex

RAPID convalescence from many debilitating diseases can be brought about with 'Lextron' when secondary anaemia has assumed a conspicuous place in the clinical picture. On 'Lextron' the patient receives all the materials essential for blood regeneration.

'Lextron' brand liver-stomach concentrate with iron and Vitamin B complex is supplied in bottles of 42, 84, and 500 'Pulvules' brand filled capsules.

Prompt Attention Given to Professional Inquiries

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Distributing Agent in Britain for

ELI LILLY AND COMPANY, INDIANAPOLIS, U.S.A.

Scarlet Fever

Products for Prophylaxis and Treatment

The 'WELLCOME' Brand Products are entirely prepared, tested and packed in England. They possess the advantages of absolute reliability, low protein content and lowered incidence of serum sickness following their use.

For Prophylaxis

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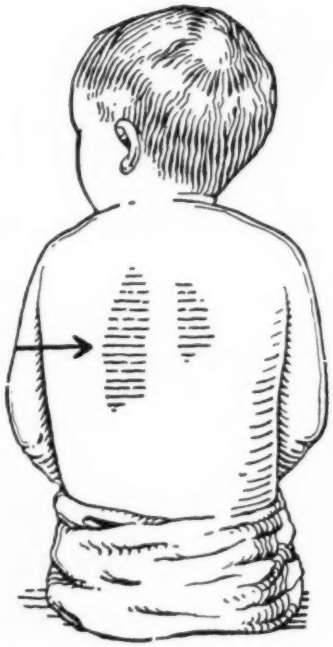

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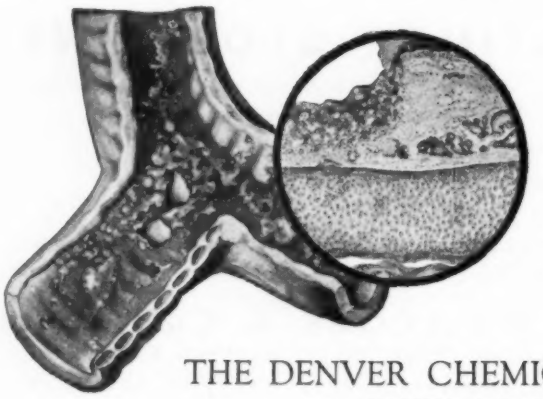

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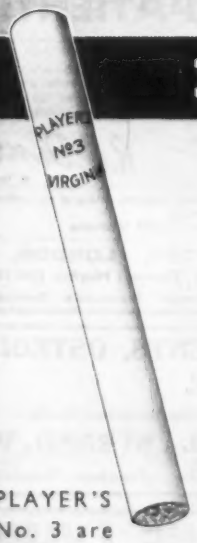

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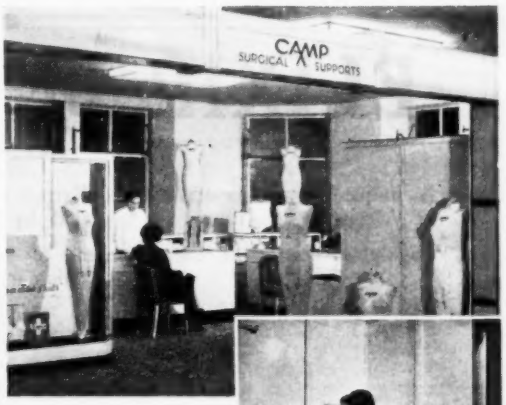

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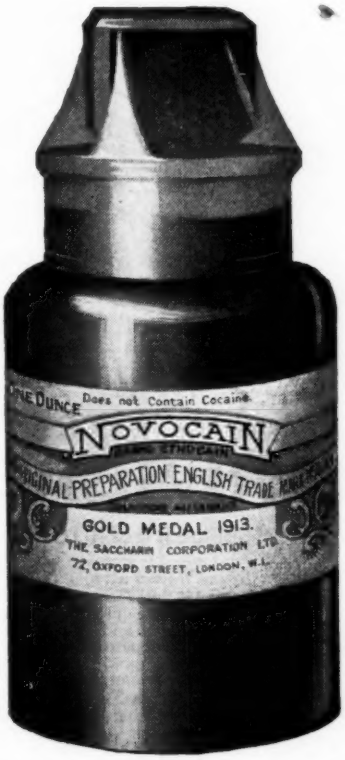

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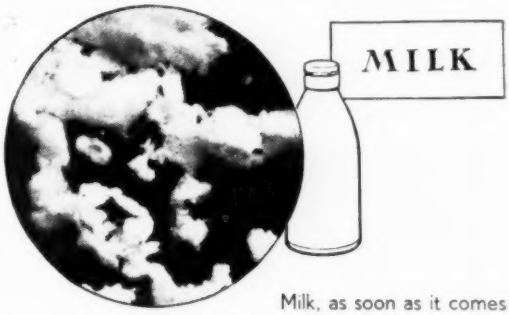

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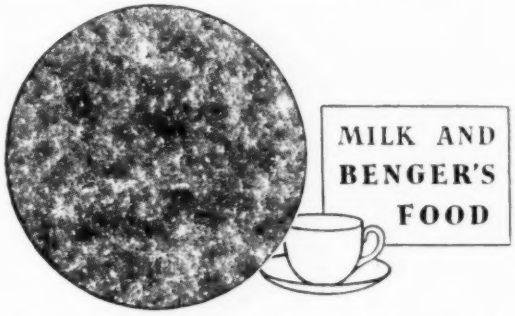

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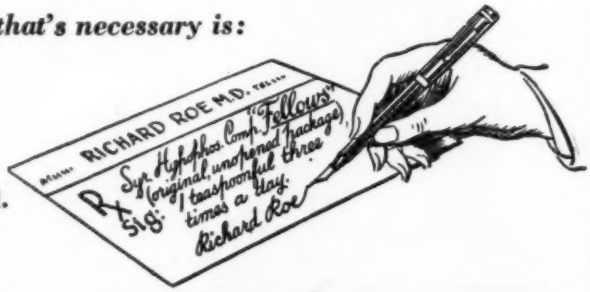

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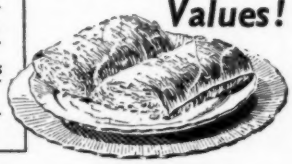

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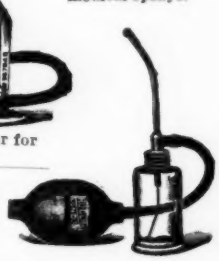

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For particulars as to terms, &c., apply to G. W. T. H. FLEMING, M.R.C.S., L.R.C.P., D.P.M., Physician Superintendent.

Telephone: No. 6207 Gloucester.

PORTSMOUTH CITY MENTAL HOSPITAL

Accommodation is provided for the reception of PRIVATE PATIENTS of both sexes in three detached Villas, which are healthily and pleasantly situated in extensive grounds with sea views.

Charges from 3 guineas weekly, including all necessaries except clothing.—Apply to the Medical Superintendent and Resident Physician, THOMAS BEATON, O.B.E., M.D., F.R.C.P.

Telegraphic Address: "Relief, Old Catton." Telephone: 290 Norwich.

NERVOUS & MENTAL AFFECTIONS

Ladies only received

The Grove, Old Catton, Norwich.

A High-class Home for the Curative Treatment of Nervous Affections. Voluntary Boarders are also received without certificates.

For full particulars apply to the Misses MCLINTOCK or to Dr. S. BARTON, 34, Surrey-street, Norwich, Visiting Physician.

CHISWICK HOUSE,

PINNER, MIDDLESEX.

Telephone: PINNER 234.

A Private Hospital for the Treatment and Care of Mental and Nervous Illnesses in both Sexes.

A modern country house, 12 miles from Marble Arch, in attractive and secluded surroundings. Fees from 10 guineas per week inclusive. Cases under Certificate, Voluntary and Temporary Patients received for treatment.

DOUGLAS MACAULAY, M.D., D.P.M.

HOME for EPILEPTICS, MAGHULL

(Near Liverpool)

FARMING and OPEN AIR OCCUPATION for PATIENTS

A few vacancies in 1st and 2nd Class Houses.

FEES:

1st Class (men only) from £5 5s. p.w. upwards.

2nd Class (men and women) 32/- p.w.

For further particulars apply Secretary,

C. EDGAR GRISEWOOD, A.C.A., 20, Exchange St. East, Liverpool.

MALLING PLACE, KENT

For LADIES and GENTLEMEN of Unsound Mind.

Terms moderate. Apply to Resident Medical Superintendent. Telegrams: ADAM WEST MALLING. Telephone No. 2: MALLING.

EPPING HOUSE

LITTLE BERKHAMSTED, Nr. HERTFORD, HERTS.

An attractive and comfortable PRIVATE HOME. Beautifully situated in its own grounds, 400 feet above sea level. Exceptionally healthy air and position affords every facility for convalescence. Foam Baths, Billiards, Squash Racquets, Lawn Tennis, Croquet, Bowls, Farm Produce, &c.

Treatment for Ladies and Gentlemen suffering from Insomnia, Functional Nervous Disorders, Alcohol and Drug Habits, Chronic Heart and Kidney Diseases, also Convalescing Cases.

Telephone: Essenden 12. *Apply,* J. C. BAKER, M.B.

THE COPPICE, NOTTINGHAM.

HOSPITAL FOR MENTAL DISEASES.

President: The Right Hon. LORD BELPER.

This Institution is exclusively for the reception of a limited number of PRIVATE PATIENTS of both sexes, of the UPPER and MIDDLE CLASSES, at moderate rates of payment. It is beautifully situated in its own grounds, on an eminence a short distance from Nottingham, and commands an extensive view of the surrounding country; and from its singularly healthy position and comfortable arrangements affords every facility for the relief and cure of those mentally afflicted. Voluntary and Temporary Patients received. Occupational Therapy. For terms, &c., apply to the Medical Superintendent.

Telephone: 64117 Nottingham.

THE WARNEFORD, OXFORD.

HOSPITAL FOR MENTAL DISORDERS.

President: The Right Hon. the LORD SAYE AND SELE.

This Registered Hospital for the Treatment and Care, at moderate charges, of Mental Patients belonging to the educated classes, stands in a healthy and pleasant situation on Headington Hill, near Oxford. Voluntary and Temporary Patients are also received for treatment. The adjacent estate of HIGHFIELD PARK has recently been acquired and the house, which has been modernised and equipped with every comfort, is now available for mild and convalescent patients. Private suites can be arranged.

For further particulars apply to the Physician-Superintendent.

CLARENCE LODGE

CLAPHAM PARK, LONDON

Situated in 3½ acres of secluded gardens.

HOME FOR TWELVE MENTAL PATIENTS (LADIES).

Well-appointed private house. Home comforts and Trained Nursing Staff. Eminent Mental Specialist. Visiting Physician.

Station: Clapham Common Tube.

Phone: Tulse Hill 4913

Apply MISS THWAITES.

RUSSELLS

Hemel Hempstead Road,

WATFORD

Telephone: WATFORD 5917

A convalescent home for the care and treatment of mild and recoverable nervous conditions in both sexes. The house is situated high up in 40 acres of grounds, 17 miles from London, at the termination of the Watford by-pass. One medical officer is in residence, and two others are in daily attendance. Fees from ten guineas a week, inclusive.

Apply: RESIDENT MEDICAL OFFICER.

STRETTON HOUSE,

Church Stretton, Shropshire.

A PRIVATE HOME for the treatment of gentlemen suffering from Mental and Nervous Illness, including the allied Disorders of Alcoholism and the Drug Habit. All types of early Mental and Nervous Cases are received without Certificates as Voluntary Patients under the provisions of the Mental Treatment Act, 1930. Bracing hill country. See "Medical Directory," p. 2368.—Apply to the Medical Superintendent. 'Phone 10 P.O., Church Stretton.

HEIGHAM HALL, NORWICH

A PRIVATE MENTAL HOME situated in 14 acres of well-wooded grounds. For Ladies and Gentlemen suffering from Nervous or Mental Illness. Voluntary Patients, Temporary Patients, and Patients under Certificates are admitted for Treatment. Fees: from 4 guineas a week upwards, according to requirements. A few vacancies exist for Ladies and Gentlemen at reduced fees on the recommendation of the Patient's own Physician.

Apply to Dr. J. A. SMALL.

Telephone: 80 Norwich. Telegrams: Small, 80 Norwich.

SPRINGFIELD HOUSE

'Phone: BEDFORD 3417. **Near BEDFORD**

For Mental Cases with or without Certificates.

Ordinary Terms: Five Guineas per week (including Separate Bedrooms for all suitable cases without extra charge).

For forms of admission, &c., apply to the Resident Physician, CEDRIC W. BOWER.

INTERVIEWS IN LONDON BY APPOINTMENT.

BROOKE HOUSE, CLAPTON

A PRIVATE HOME for the treatment of Nervous and Mental Disorders in both sexes. Situated in nine acres of Pleasure Grounds.

Voluntary, Temporary, and Certified Patients received.

For further particulars apply—

Dr. ERNEST ROLLINS, Resident Physician.

Tel.: Amherst 1642

HILL END HOSPITAL AND CLINIC

FOR THE PREVENTION AND TREATMENT OF MENTAL AND NERVOUS DISORDERS

(20 miles from London)

Ladies suffering from all forms of MENTAL ILLNESS are received for treatment, on modern lines, as Voluntary, Temporary or Certified Private Patients at the Hill End Hospital. Convalescent or mild cases can be treated in a delightful country mansion, with extensive grounds, known as

HIGHFIELD HALL,

situate about a mile away from the Hospital.

FEES TWO TO FOUR GUINEAS PER WEEK.

For further particulars apply to the Medical Director, W. J. T. KIMBER, L.R.C.P., D.P.M.

ST. ALBANS, HERTS

FENSTANTON

Christchurch Road, Streatham Hill, S.W.2

A Private Home for the Treatment of LADIES with Mental and Nervous Disorders. Psycho-Therapy, Physio-Therapy, &c. 12 acres of grounds

Apply: **Dr. MADELINE R. LOCKWOOD,**

phone: TULSE HILL 7181 *Resident Physician Superintendent.*

Grove House, All Stretton, Church STRETTON, SHROPSHIRE.

A PRIVATE HOME for the care and treatment of a limited number of Ladies Mentally Afflicted.
Climate healthy and bracing.
Apply to Dr. McCLINTOCK, Proprietor and Resident Medical Superintendent.

CITY OF LONDON MENTAL HOSPITAL
Near DARTFORD, KENT.

Ladies and Gentlemen received for treatment under certificates, and without certificates as either VOLUNTARY or TEMPORARY PATIENTS, at a weekly fee of £2 9s., and upwards.

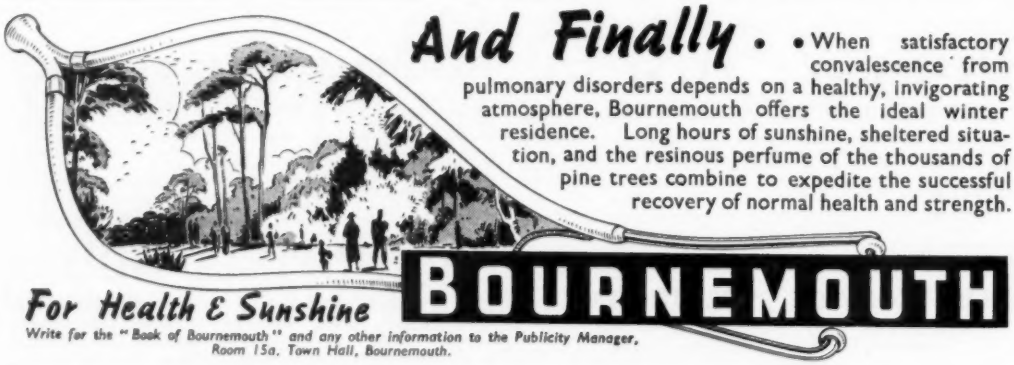
Littleton Hall, Brentwood, Essex.
(18 miles from London.) 400 feet above sea.

A PRIVATE HOME for LADIES situated in large grounds. Voluntary, temporary, or certified cases received.
Apply to Dr. HAYNES. Tel.: Brentwood 45.

RHEUMA SPA, KINMEL HALL, ABERGELE, NORTH WALES

Modern Spa Treatments, including Continental Pistany Mud and Scotch Douche, for Rheumatic and similar disabilities. Resident Physician. Excellent amenities and Recreational facilities.

IDEAL WINTER QUARTERS—REDUCED RATES



Smedley's
Great Britain's Greatest Hydro
Matlock

Unrivalled suites of Baths—Turkish and Russian Baths, Aix and Vichy Douches, Massage; Plombières Treatment. Studs Chair. Electric Installation for Baths and other Medical Purposes, Dowsing Radiant Heat, Infra-red Light, Artificial Sunlight, D'Arsonval High Frequency, Diathermy, Nauheim Baths, Soapless Foam Baths, etc. "Certified" Milk from own farm. Large Winter Garden. Orchestra. Special provision for Invalids. Night attendance. Over 60 trained Male and Female Nurses, Masseurs, Attendants, etc.
Resident Physicians: G. C. R. HARRINSON, M.B., B.Ch., B.A.O. (R.U.I.), H. RHYS DAVIES, B.A., M.B., B.Ch., B.A.O. **TERMS, 13s. to 18s. per day, include Turkish and other Baths.** *Illustrated Brochure C.J. on request.*
'Phone: Matlock 17 (3 lines). *'Grams:* Smedleys, Matlock.

West London Hospital,
Hammersmith-road, W.6. (239 Beds.)

Applications are invited for the post of SURGICAL REGISTRAR AND TUTOR (RESIDENT). Candidates must be duly qualified registered Medical Practitioners (Male), unmarried, and should hold one of the higher surgical qualifications. Salary is at the rate of £225 a year, with full board and residence. Four weeks' holiday a year. The appointment is for one year from 1st April next or earlier, terminable by three months' notice on either side, and, subject to annual re-election, may be extended to not more than three years.

The duties will include deputising for the Honorary Surgeons, teaching in the Medical School, and as Senior Resident Officer the candidate appointed will be responsible for certain administrative duties.

Applications, with copies of testimonials, should reach me not later than Saturday, 11th February. Candidates must attend a meeting of the Medical Council and House Committee on Friday, 24th February, at 4.30 P.M., and, prior to that date, call upon and send copies of their application and testimonials to each member thereof. They must not canvass members of the Board, but, if so notified, must attend a Meeting of the Board of Management on Tuesday, 28th February, at 5 P.M., when the appointment will be made.

H. A. MADGE, Secretary.

King George Hospital, Ilford (near London).

Applications are invited for the post of HONORARY ANÆSTHETIST.

Particulars as to duties and honorarium can be obtained from the undersigned, to whom applications should be sent not later than 13th February.

G. AUSTIN HEPWORTH, Secretary and Superintendent.

The West London Hospital Medical SCHOOL,
West London Hospital, W.6.

There is a vacancy for the post of LECTURER IN FORENSIC MEDICINE. Candidates must be registered Medical Practitioners and have special experience of medico-legal work as well as previous experience in teaching.

Particulars as to duties, remuneration, &c., may be obtained from the Dean to whom applications, together with the names of not more than three referees, should be sent not later than Saturday, February 25th.

St. Mary's Hospital, W.2.

Applications are invited from duly qualified Practitioners for the post of RESIDENT ANÆSTHETIST.

The salary is £125 per annum, with board and residence.

The appointment will be, in the first instance, for six months, but the holder will be eligible for a second period of six months.

Copies of the regulations for Resident Anæsthetist may be obtained from the Secretary's Office.

Applications, with copies of testimonials, not exceeding three in number, should reach the undersigned on or before Thursday, 9th February, 1939.

W. PARKES, House Governor.

St. John's Hospital, Lewisham, S.E.13.

Applications are invited for the resident appointment of CASUALTY OFFICER (Male) tenable for six months from the 1st March, 1939, at a remuneration of £100 per annum.

Applications, with copies of testimonials, should reach the undersigned by February 14th.

J. C. GILBERT, Secretary-Superintendent.

County Borough of West Ham.

EDUCATION DEPARTMENT.

Applications are invited from fully qualified Dentists (Male) for appointment as SENIOR SCHOOL DENTAL OFFICER. The person appointed will be responsible to the School Medical Officer, and will be required to devote the whole of his time to the service of the Education Committee, to coördinate and supervise the work of the existing dental staff, and also to undertake clinical work. Salary £600 per annum, rising by annual increments of £25 to a maximum of £700 per annum, all fees received from whatever source to be paid over to the Council.

The appointment will be subject to the provisions of the Local Government and Other Officers' Superannuation Acts and to medical examination as required by the Council for the purposes of such Acts, and the statutory contributions will be deducted from the salary.

Canvassing members of the Education Committee or the Council, either directly or indirectly, will be considered a disqualification.

Forms of application, together with particulars of duties, may be obtained from the School Medical Officer, Municipal Health Offices, 88, Romford-road, E.15, upon receipt of a stamped addressed envelope, and should be returned to the undersigned not later than Saturday, 18th February, 1939.

CHARLES E. CRANFIELD,
Town Clerk and Education Officer.

Education Offices, 95, The Grove, Stratford, E.15.
25th January, 1939.

ROYAL NAVAL DENTAL SERVICE

Applications are invited for appointment to Commissions as DENTAL OFFICERS in the Royal Navy.

Candidates, who must be British subjects below the age of twenty-eight years, must hold the Degree or Diploma of a British University or College of Surgeons and be registered under the Dentists' Acts or Medical Acts. Unmarried candidates are preferred. No examination in professional subjects will be held, but candidates will be required to attend at the Admiralty for interview, and for physical examination as to their fitness for service in any part of the world.

Successful candidates will be appointed to Short Service Commissions as Surgeon-Lieutenants (D) and will receive a grant of £50 towards the cost of providing the necessary uniform on entry. Vacancies in the permanent list will be filled by selection from among officers holding Short Service Commissions who desire to make the Royal Naval Dental Service their permanent career. Officers not transferred to the Permanent List will, on the termination of their short service engagement after six years' service, be eligible for a gratuity of £1000.

Opportunities are available for officers on the Permanent List for post-graduate study. The assistance of private income is not necessary for the purpose of supplementing official pay and allowances.

Naval Dental Officers are included in the Scheme for Marriage Allowance under the same conditions as for other Naval Officers.

Application forms and copies of the regulations for entry and conditions of service, rates of pay and allowances, &c., may be obtained from the MEDICAL DIRECTOR-GENERAL OF THE NAVY, Admiralty, S.W.1, and from the Deans of Dental Schools.

The Hospital for Sick Children,

Great Ormond-street, London, W.C.1.

A RESIDENT MEDICAL ASSISTANT AND CLINICAL PATHOLOGIST is required as soon as possible after the 1st March, 1939. Salary £125 per annum.

The appointment is tenable in the first instance for one year, but may be held for a period of two years, subject to re-election.

The morning duties will include those of an Out-patient Medical Registrar. The afternoons will be devoted to work in a section of the Pathological Department.

Candidates must be unmarried, possess a legal qualification to practise, and have held a responsible resident appointment at a General Hospital.

Applications must be received by NOON on Monday, the 20th February, 1939, and candidates must be prepared to attend for interview by the Joint Committee at 4.45 P.M. on Wednesday, 1st March, 1939.

Further particulars and forms of application are obtainable from the undersigned.

HERBERT F. RUTHERFORD, Secretary.

January, 1939.

St. Bartholomew's Hospital.

HELEN CAVE MEMORIAL SCHOLARSHIP.

This entrance Scholarship, in a wide range of subjects (Matriculation standard), is tenable at St. Bartholomew's Hospital Medical College. The next examination will be held in September, 1939. The value of the Scholarship is about £200. Candidates must be the sons of medical men. In awarding the Scholarship consideration is given to a candidate's financial circumstances and to his school career.

Further details can be obtained by application to the Dean of the Medical College, St. Bartholomew's Hospital, E.C.1.

Appointments for Medical Officers in The ROYAL AIR FORCE

Medical men are invited to apply for Short Service Commissions in the Royal Air Force.

Candidates must be registered under the Medical Acts and be not more than 31 years of age on entry.

The period of service is 3 years—extendible to 5 years. A gratuity of £400 or £1,000 is payable at the termination of 3 or 5 years respectively. Permanent commissions are awarded in a number of cases. These offer a pensionable career with the opportunity of extra leave on full pay for specialised study.

Applicants who hold—or are likely to hold—post-graduate appointments in civil hospitals may, on joining the Royal Air Force, be seconded until the termination of their appointments (for a period not exceeding one year) An antedate of commission, up to twelve months, is allowed for appointments held at approved hospitals.

Fuller information can be obtained from The Director of Medical Services, Air Ministry, Kingsway, London.

HIS MAJESTY'S COLONIAL SERVICE

COLONIAL MEDICAL SERVICE

During 1939 the Secretary of State for the Colonies proposes to select a number of **MEDICAL OFFICERS** to fill vacancies, the majority of which will occur in **TROPICAL AFRICA** and in **MALAYA.**

QUALIFICATIONS.

Candidates must be British subjects of European parentage, under 35 years of age, and must possess a medical qualification registrable in the United Kingdom. Preference will be given to candidates who have held Hospital or Public Health appointments, or who have special knowledge of anæsthetics, radiology, surgery, medicine, ophthalmology, gynæcology and midwifery, diseases of the ear, nose and throat, venereal diseases, etc.

DUTIES.

Although Medical Officers are appointed in the first instance for general service, there are opportunities for work in special branches of medicine and surgery, in public health, and in medical research.

TERMS OF APPOINTMENT.

The appointments are pensionable, subject to a probationary period which varies from two to three years.

SALARY.

Initial salaries vary from £600 to £700, and rise by increments to a maximum of between £1000 and £1200.

After they are confirmed, officers become eligible in due course for promotion to higher specialist or administrative posts, with salaries varying from £1200 to £1800.

PRIVATE PRACTICE.

Private practice is not allowed as of right, but in the case of some appointments it is permitted on certain conditions.

QUARTERS.

In Tropical Africa, free quarters, or an allowance in lieu, are provided. In Malaya, quarters are provided at an annual rental not exceeding 6 per cent. of an officer's salary.

PASSAGES.

Free first-class passages are provided on first appointment and when returning from leave. Assistance is also given towards family passages.

COURSES OF INSTRUCTION IN TROPICAL MEDICINE and HYGIENE.

Selected candidates will normally be required to attend a course of instruction leading to the Diploma in Tropical Medicine and Hygiene before proceeding overseas.

Further particulars and forms of application may be obtained from the DIRECTOR OF RECRUITMENT (Colonial Service), 8, Buckingham Gate, London, S.W.1.

ROYAL NAVAL MEDICAL SERVICE

Vacancies exist for MEDICAL OFFICERS in the Royal Navy, and applications are invited for entry in March, 1939.

Candidates below the age of 28 years are preferred, and they must be registered under the Medical Acts. No examination in professional subjects will be held but candidates will be required to attend for interview by a Selection Board.

Selected candidates will be entered for Service for a period of three years, which if desired is usually extended to five years at the discretion of the Admiralty.

Officers who leave the Service at the end of the initial period of three years will be eligible for a gratuity of £400, and those who leave at the end of five years for a gratuity of £1,000.

At the end of five years' Short Service permanent commissions will be given to selected officers who wish to make the Naval Medical Service their permanent career. Officers transferred to the permanent list will receive a gratuity of £1,000 (less Income Tax).

Full opportunities exist for transfer to the permanent list. Marriage Allowance is paid under the same conditions as for other Naval Officers.

Opportunities are available for officers on the permanent list for post-graduate study, to specialise, to take higher examinations and to obtain further qualifications.

Copies of the regulations for entry and conditions of Service, including rates of pay, allowances and retired pay, may be obtained from the Medical Director-General of the Navy, Admiralty, S.W.1, and from the Deans of all Medical Schools.

Applications for entry from intending candidates must be received not later than 28th February, 1939.

University of London.

THOMAS SMYTHE HUGHES MEDICAL RESEARCH FUND.

Applications are invited from members of the University for GRANTS from the Thomas Smythe Hughes Fund for assisting Medical Research.

Application forms (which must be returned by March 31st, 1939) and further particulars may be obtained from the Academic Registrar, the Senate House, University of London, W.C.1.

January, 1939.

The Committee of Management of the

Seamen's Hospital Society invite applications for the appointment of PHYSICIAN WITH CHARGE OF OUT-PATIENTS at the DREADNOUGHT SEAMEN'S HOSPITAL, GREENWICH. The elected candidate will have beds allotted to him, and will be appointed for twelve months, but will be eligible for re-election.

Candidates must be Doctors or Bachelors of Medicine of a University in the United Kingdom, and Fellows or Members of the Royal College of Physicians, London.

Applications to be sent in on or before the 1st March to the undersigned, from whom further particulars can be obtained.

By Order.
F. A. LYON, Secretary.

27th January, 1939.

London Hospital, E.1.

There is a vacancy for the post of CLINICAL ASSISTANT in the X-RAY DEPARTMENT. Candidates must be fully qualified medically. Experience in Radiology is essential. The honorarium of the post is £100 per annum.

Applications, with testimonials, should be sent to the Secretary.

H. L. MILSOM, Secretary.

Woolwich and District War Memorial

HOSPITAL, Shooters Hill, London, S.E.18.
General Hospital. 112 Beds.

The Board of Management invites applications from suitably qualified Male candidates for the undermentioned appointments:

(a) HONORARY ASSISTANT SURGEON.
(b) HONORARY ASSISTANT OBSTETRIC SURGEON.

The Honorary Assistant Surgeon must be a Fellow of the Royal College of Surgeons (England), and the Honorary Assistant Obstetric Surgeon, a Fellow of the Royal College of Surgeons (England) and/or a Member of the Royal College of Obstetricians and Gynæcologists.

(c) HOUSE SURGEON.—This appointment will be for six months with effect from March 6th, 1939. An honorarium at the rate of £100 per annum will be paid, plus board, residence, and laundry. In addition to his surgical duties, the House Surgeon will have the care of a Maternity Unit of eight beds. Applications for this post, which is recognised by the Royal College of Surgeons for the six months' training required of candidates before admission to the Final Examination for the Fellowship, should be made on the prescribed form, obtainable from the undersigned.

The closing date for the receipt of applications for all three appointments is Friday, February 24th, 1939. Short-listed candidates will be invited to meet the Appointments Committee on Friday, March 3rd, 1939.

R. S. G. HUTCHINGS, Secretary.

British Postgraduate Medical School.

Applications are invited from fully qualified Medical Practitioners for the posts of CASUALTY OFFICER, one to begin duty on 1st March, 1939, and one to begin duty on 1st April, 1939.

The appointments are for six months each and are non-resident. Salary in each case is at the rate of £150 per annum and the posts are specially suited to candidates studying for higher qualifications.

Applications, accompanied by copies of two testimonials, should be addressed to the Dean, British Postgraduate Medical School, Ducane-road, Shepherd's Bush, London, W.12, to arrive not later than the first post on Tuesday, 14th February, 1939.

Golden Square Throat, Nose and

EAR HOSPITAL, London, W.1.

Applications are invited for the post of CLINICAL ASSISTANT. Candidates should state age, qualifications, and experience and send copies of three testimonials on or before 18th February, 1939.

F. P. CARROLL, Secretary-Superintendent.

London Jewish Hospital,

Stepney Green, E.1.
General Hospital. 109 Beds.

Applications are invited for the post of SURGICAL REGISTRAR. Honorarium at the rate of sixty guineas per annum.

Particulars for the appointment can be obtained from the Secretary, to whom candidates must send ten copies of their applications, with copies of three recent testimonials, not later than Friday, 17th February.

The Prince of Wales's General Hospital,

London, N.15.
(238 Beds.)

The following Resident Posts will be vacant on March 15th next:—

(a) JUNIOR HOUSE PHYSICIAN.
(b) Two JUNIOR HOUSE SURGEONS.

Salary at the rate of £90 per annum, board, residence, and laundry.

Appointments held for six months, but holders are eligible for a further term as Senior.

Candidates (Male and unmarried) must be fully qualified and registered, and applications (on the prescribed form) together with copies of three recent testimonials, should be sent to the undersigned on or before March 1st, 1939.

J. C. BURDETT, Director and House Governor.

Queen Charlotte's Maternity Hospital,

Marylebone-road, N.W.1.

Applications are invited from registered Medical Practitioners for the following appointments:—

ASSISTANT RESIDENT MEDICAL OFFICER (Male). Salary £80 per annum.

RESIDENT ANÆSTHETIST AND DISTRICT RESIDENT MEDICAL OFFICER for six months. Salary £90 per annum.

RESIDENT ANÆSTHETIST for three months. Salary £100 per annum, with board, residence, and laundry allowance (4s. weekly).

Appointments to commence on 1st April, 1939.

The Assistant Resident Medical Officer is appointed for three months, and on completion will be expected to proceed to the post of Senior Resident Medical Officer (salary £100 per annum). Obstetric experience desirable.

Applications, stating age, medical school, previous experience and qualifications, and with copies of three testimonials, should be sent to the Secretary by the 20th February.

H. B. STOKES, Secretary-Superintendent.

Royal Northern Hospital,

Holloway, N.7.

Applications are invited for the following appointment:—

OBSTETRIC HOUSE SURGEON, vacant 15th March. The appointment is for nine months (six months as Obstetric House Surgeon and three months as Casualty Officer). Salary at the rate of £70 per annum, with board, residence, and laundry.

Applications, with copies of testimonials, should be sent by 10th February to the undersigned, from whom the necessary forms of application and rules can be obtained.

GILBERT G. PANTER, Secretary.

London County Council.

OPHTHALMOLOGIST required for two sessions a week for duty chiefly at County Hall in connexion with Council's School Medical Services, &c. Candidates must be of recognised consultant and specialist status. Salary £200. Forms (stamped addressed foolscap envelope necessary) from Medical Officer of Health (S.D.5), County Hall, Westminster Bridge, S.E.1. Returnable by 18th February. Canvassing disqualifies.

East End Maternity Hospital (60 Beds,

District attached).—Applications are invited for the combined post of RESIDENT OBSTETRIC MEDICAL OFFICER and OBSTETRIC REGISTRAR to the above Hospital. Previous obstetric experience is essential and preference will be given to applicants possessing the M.R.C.O.G. Diploma or other higher qualification in obstetrics. Salary according to experience and qualifications. Minimum £400 per annum, plus emoluments.

Applications, stating age, qualifications, &c., together with copies of recent testimonials, referring to previous obstetrical experience should be forwarded not later than February 14th, 1939, to the Secretary, East End Maternity Hospital, 396, Commercial-road, E.1.

East Ham Memorial Hospital,

Shrewsbury-road, E.7.
(104 Beds.)

Applications are invited for the post of HOUSE PHYSICIAN (Male). The appointment is for six months commencing 1st March. Salary at the rate of £150 per annum, with board, residence, and laundry.

Applications, stating age, nationality, experience, and full particulars, together with copies of three testimonials, should reach the undersigned by 16th February, 1939.

REGINALD PERRY, Secretary.

King Edward Memorial Hospital,

EALING. (145 Beds.)

CASUALTY OFFICER AND HOUSE SURGEON (Male) required 1st March, 1939. Six months appointment with possibility of re-election for a further period. Salary £150 per annum with usual residential emoluments.

Applications, stating age, experience, and qualifications together with copies of two recent testimonials, should be sent to the undersigned by February 6th, 1939.

R. A. MICKELWRIGHT, House Governor.

Central London Ophthalmic Hospital,
Judd-street, St. Pancras, W.C.1.

Applications are invited from registered Medical Practitioners for the posts of SENIOR and JUNIOR HOUSE SURGEON, vacant on March 31st. The Junior House Surgeon is a candidate for the Senior post. Salary £120 and £100 per annum respectively, with board and residence.

Applications, with copies of three testimonials, should reach the Secretary on or before February 25th.

GEORGE WATTS, Secretary.

Miller General Hospital,
Greenwich-road, S.E.10.

Applications are invited for the following posts—

HOUSE PHYSICIAN. Male; unmarried. Salary £100 per annum.

HOUSE SURGEON. Male; unmarried. Salary £100 per annum.

Board, residence and laundry are provided.

The appointments are for six months from 1st April, 1939.

There are six Resident Officers.

Application forms can be obtained from the Secretary, and must be returned not later than 23rd February, 1939.

31st January, 1939.

AMENDED ADVERTISEMENT.

Borough of Leyton.

DEPUTY MEDICAL OFFICER OF HEALTH AND DEPUTY SCHOOL MEDICAL OFFICER.

Applications are invited from registered Medical Practitioners (Male) possessing a registered Diploma in Public Health or State Medicine, for the appointment of Deputy Medical Officer of Health and Deputy School Medical Officer.

Age not to exceed forty-five years.

The salary attaching to the post will be £750 per annum.

Candidates must have had special experience in the diagnosis and treatment of infectious diseases and preference will be given to those with previous experience in school medical inspection.

The appointment will be subject to the provisions of the Local Government and Other Officers' Superannuation Act, 1922, or in the event of the person appointed taking up his duties after the 31st March, 1939, to the provisions of the Local Government Superannuation Act, 1937; and to the conditions set out on the form of application.

Applications must be made on the prescribed forms which can be obtained by sending stamped, addressed foolscap envelope to the undersigned.

Applications endorsed "Deputy Medical Officer of Health" must reach the undersigned as soon as possible, and not later than the first post on the 20th February 1939. Canvassing directly or indirectly will be a disqualification.

JNO. ATKINSON, Town Clerk.

Town Hall, Leyton, E.10, January, 1939.

Princess Elizabeth of York Hospital
FOR CHILDREN
(Formerly East London Hospital for Children)
Shadwell, London, E.1.

Applications are invited for the appointment of HONORARY RADIOLOGIST in charge of the X-RAY and ELECTRO-THERAPEUTICAL DEPARTMENT to attend the above hospital regularly twice a week, emergencies excepted.

Candidates are required to hold a Diploma in Medical Radiology.

Applications, with copies of three testimonials, should be made by Monday, 6th February, to the undersigned from whom further particulars may be obtained.

EDWARD PENTON, Secretary-Superintendent.

County Borough of Halifax.

ASSISTANT MEDICAL OFFICER OF HEALTH—MATERNITY AND CHILD WELFARE (Female).

Applications are invited from duly qualified and registered Medical Practitioners for the post of whole-time Assistant Medical Officer of Health—Maternity and Child Welfare (Female), experienced in Ante-natal work, Midwifery and Children's Diseases, to hold consultations at the Ante-natal and Maternity and Child Welfare Centres in the County Borough of Halifax and to perform such other duties as appertain to the office.

The person appointed will be a member of the Staff of the Medical Officer of Health and will work under his control and direction. She will be required to devote her whole time to the duties of her office and not to engage in private practice of any description.

The salary offered is £500 per annum, rising by annual increments of £25 to £700 and the post will be subject to the provisions of the Local Government Superannuation Act, 1937.

Applications must be made on the prescribed form, to be obtained from the undersigned, and delivered, accompanied by copies of three recent testimonials, not later than first post on Monday, 20th February, 1939, endorsed "Assistant M.O.H.—Maternity and Child Welfare" and addressed to the Town Clerk, Town Hall, Halifax.

Canvassing, either directly or indirectly, will be a disqualification.

PERCY SAUNDERS, Town Clerk.

Town Hall, Halifax, 31st January, 1939.

Jervis Street Hospital, Dublin.

The Managing Committee of the Hospital will, on the 27th February, proceed to appoint two qualified Practitioners as

SURGICAL REGISTRARS

to the Hospital as from the 15th March, 1939.

Each candidate shall with his application state his age and furnish particulars of his Surgical and Medical qualifications and experience.

The appointment shall be for one year only, but the appointee may be appointed for a second and a third consecutive year.

Candidates will, on request, be furnished by the Secretary of the Managing Committee with a copy of the terms of remuneration, appointment, duties, rules, and regulations affecting Surgical Registrars.

All applications must be furnished on or before the 20th February to the Hon. Secretary of the Medical Board, Jervis Street Hospital, Dublin.

By Order,
SHEILA O'DEA, Secretary.

County Borough of Oldham.

ASSISTANT MEDICAL OFFICER OF HEALTH and RESIDENT MEDICAL OFFICER at the Infectious Diseases Hospital.

Applications are invited from unmarried registered Medical Practitioners, not exceeding forty-five years of age, for the above appointment. The appointment affords opportunities for gaining experience in all branches of the Public Health Service, including Tuberculosis, and the possession of a D.P.H. will be an advantage.

The salary is at the rate of £350 per annum, rising, subject to satisfactory service by annual increments of £25 to £550, together with board, residence, and laundry, which are valued at £150 per annum. In accordance with the Grading Scheme of the Corporation the first increment will be payable on the 1st April next following appointment, provided a period of six months has elapsed since commencement of duties, otherwise the increment will be paid on the subsequent 1st April. All fees of every kind whatsoever must be handed over to the Corporation.

The person appointed will be required to devote his/her whole time to the office, which will also include duties in connexion with the work of the Public Health Department as assigned to him/her by the Medical Officer of Health.

The appointment which may be terminated by two months notice on either side, is subject to the provisions of the Local Government and Other Officers' Superannuation Act, 1922, and the person appointed will be required to pass a medical examination.

Canvassing or submitting testimonials from members of the Council or of any Committee appointed by the Council will be a disqualification.

Forms of application and conditions of appointment may be obtained from the Medical Officer of Health, Town Hall, Oldham, and must be returned to him (marked "Resident Medical Officer") together with copies of three recent testimonials, not later than the first post on Friday, 24th February, 1939.

THOMAS ALKER, Town Clerk.

Town Hall, Oldham, 1st February, 1939.

Psychiatric Clinical Assistantship.

INSULIN SHOCK THERAPY.

Vacancy for Medical Man or Woman desirous of learning the technique of this treatment. Ample opportunity for practical daily management of cases under skilled supervision. Candidates should be willing to act as Clinical Assistant (Unpaid) for a period of six months. Board, lodging and laundry provided free of charge. Three free afternoons per week. One hour's journey from London. Hospital recognised for D.P.M.

Applications forthwith to the Medical Superintendent, Bucks Mental Hospital, Stone, Aylesbury.

Hull Corporation Health Department.

BEVERLEY ROAD INSTITUTION (HOSPITAL)
(400 Beds.)

MALE ASSISTANT MEDICAL OFFICER.

Applications are invited for the above appointment from duly qualified Medical Men, who must be single, and under the age of forty years.

Salary £350 per annum, rising by annual increments of £25 to £450 per annum, together with board, residence and laundry.

As the appointee will be required to work mainly in the Medical Wards, preference will be given to candidates with higher degrees in Medicine and special postgraduate experience in General Medicine.

The hospital is equipped with X Ray and Ultra-violet Light Departments.

The appointment is subject to the provisions of the Local Government Superannuation Act, 1937.

Applications, on forms to be obtained from the undersigned, are returnable not later than 10 A.M. on Monday, February 20th, 1939.

NICOLAS GEBBIE, M.D., Medical Officer of Health.

Health Department, Guildhall, Hull.
January 31st, 1939.

Royal Buckinghamshire Hospital,
AYLESBURY. (115 Beds.)

Applications are invited for the post of
SENIOR RESIDENT MEDICAL OFFICER (Male),
for (*a*) seven months, beginning * 1st March, or (*b*) six months, beginning * 1st April, 1939.
Salary £200 per annum, with full board, residence in own flat, and laundry.

Previous Hospital experience is desirable. Opportunity will be afforded to undertake all branches of medical and surgical practice, including anæsthesia, and to work with London Consultants.

Selected candidates will be required to attend for interview by the Medical Committee on Friday, 17th February, 1939.

Applications must reach the undersigned by Monday, 13th February, 1939.

F. G. DAWES, Secretary.

* State which in application.

Torbay Hospital, Torquay.
(168 Beds.)

HOUSE SURGEON (Male) required for March 1st. Salary £175 per annum, with board, residence and laundry. Candidates must be fully qualified, registered and unmarried.

Applications, stating age, nationality, qualifications and experience, with copies of not more than three recent testimonials, to be received by the undersigned not later than February 13th.

E. L. GRIST, Secretary.

February 3rd, 1939.

Dorset County Hospital, Dorchester.

APPOINTMENT OF HOUSE SURGEON

The Committee of Management are open to receive applications for the position of House Surgeon (Male only), to take up his duties early in March, 1939.

Every candidate must be unmarried and possess a registered qualification to practise medicine and surgery from some recognised body in Great Britain or Ireland. Salary £150 per annum, with board and lodging. The appointment is for a period of six months.

All applications, accompanied by copies of three recent testimonials, should be sent to the Secretary, the Dorset County Hospital, by 15th February, 1939.

Candidates must be of British birth and nationality.

Hull City Mental Hospital, Willerby,
Nr. Hull.

Applications are invited for the post of SECOND ASSISTANT MALE MEDICAL OFFICER (Married).

The commencing salary is £500 per annum, rising by annual increments of £25 to a maximum of £600 per annum, with an additional £50 for the possession of the D.P.M., together with emoluments comprising furnished house, coal, light, laundry and vegetable produce for his household (valued for superannuation purposes at £150 per annum), also permission to buy provisions out of store at contract prices.

The appointment will be subject to the provisions of the Asylums Officers' Superannuation Act, 1909.

Forms of application may be obtained from the Medical Superintendent, and should be returned to him, together with not more than three recent testimonials, not later than the 20th February, 1939.

Royal Maternity Hospital, Belfast.

RESIDENT MEDICAL OFFICERS.

The Committee of Management invites applications for the posts of Resident Medical Officers (two).

These appointments will be for six months from 1st of March at a salary at the rate of £52 per annum. Candidates must be members of a recognised organisation for medical protection or defence.

Applications, with copies of not more than three testimonials, must reach the Superintendent, from whom further particulars may be obtained, not later than the 11th of February, 1939.

Canvassing forbidden. (By Order.)

C. E. DUFFIN, Hon. Secretary.

Cardiff Royal Infirmary.
NATIONAL RADIUM CENTRE.

Applications are invited for the post of RADIUM REGISTRAR (Male or Female) to the Cardiff Royal Infirmary.

Applicants must be duly qualified Medical Practitioners.

The remuneration will be at the rate of £200 per annum, with board and residence.

The successful applicant will in the first place be appointed for a period of three months, which will normally be extended to twelve months, and which may further be extended for a second year.

Applicants are asked to state the earliest date on which they could commence duty.

Previous clinical experience in Radium work is desirable.

Intending applicants should apply to the undersigned, who will furnish an application form which should be returned completed, together with copies of three testimonials, at the earliest possible moment.

R. ARMSTRONG,
Medical Superintendent, Cardiff Royal Infirmary.

January 30th, 1939.

Mansfield and District General
HOSPITAL, NOTTS. (150 Beds.)

Applications are invited for the post of HOUSE SURGEON (Male) for a period of six months. Duties to commence at an early date. Salary £150 per annum, with board, residence and laundry. Two other Resident House Surgeons and House Physician.

Applications, stating age, and qualifications, together with copies of three recent testimonials, to be sent to the undersigned forthwith.

A. ASHWORTH, Secretary.

Wonford House, Registered Hospital,
EXETER.

Applications are invited for the post of ASSISTANT MEDICAL OFFICER (Male, single) at a commencing salary of £350 per annum, increasing by annual increments of £30 to £500 per annum, together with board, lodging and laundry. An additional £50 per annum will be paid for the possession of the Diploma in Psychological Medicine.

Applicants should have previous mental hospital experience and be not more than forty years of age.

Applications, which must be received not later than the 25th February, 1939, should be addressed to the Medical Superintendent, together with copies of three recent testimonials.

Grimsby and District Hospital.
(189 Beds.)
(64 allocated to Fracture and Orthopædic Cases.)

Applications are invited for the post of RESIDENT ORTHOPÆDIC OFFICER. Salary £225 per annum, with board residence. The appointment is for six months, and may be renewed. Candidates must be registered under the Medical Acts, reside in the Hospital, and have had experience in Orthopædic and Fracture work.

Applications, with copies of not more than three testimonials, to the undersigned at once.

H. B. COATES, Secretary-Superintendent.

27th January, 1939.

City of Nottingham.

PHYSICIAN (TEMPORARY).

The Nottingham City Council requires immediately the temporary services of a Physician to undertake the examination of a large number of employees who will shortly be eligible for inclusion in a superannuation scheme.

The person appointed will be required to give his whole time to the duties and it is expected that the appointment will be for about three months. The work will be carried out in Corporation premises.

The remuneration will be £15 per week.

Applicants must produce evidence of skill and experience as physicians; recently qualified persons should not apply.

Forms of application may be obtained from me and they should be returned in an envelope endorsed "Temporary Physician" so as to reach me not later than Tuesday, the 28th February, 1939.

(Signed) J. E. RICHARDS, Town Clerk.

Guildhall, Nottingham.

Middlesex County Council.
MIDDLESEX COLONY, SHENLEY.

THIRD ASSISTANT MEDICAL OFFICER required at the above Institution. Applicants should be fully qualified and registered. Single, and under thirty-five years of age. Salary £365 per annum, rising by six consecutive annual increments of £20 each to a maximum of £485 per annum, with emoluments valued at £150 per annum.

Applications, together with copies of three recent testimonials, to be forwarded to the Medical Superintendent, Middlesex Colony, Harper-lane, Shenley, near St. Albans.

Sutton and Cheam Hospital, Sutton,
SURREY.
(75 Beds.)

Applications are invited for the post of JUNIOR RESIDENT MEDICAL OFFICER (Male). Salary £100 per annum, with residence, board, and laundry. The appointment will be for six months, and carries with it the option of applying for the post of Senior Resident Medical Officer, which becomes vacant on the 1st June next, at a salary of £150 per annum, with residence, board, and laundry.

Applications, giving full particulars as to age and qualifications, together with copies of three recent testimonials, should be sent to the Secretary not later than Saturday, 18th February, next.

The Robert Jones and Agnes Hunt
ORTHOPÆDIC HOSPITAL, OSWESTRY.
(Beds: Adults 250—Children 110.)

HOUSE SURGEON (Male) required March 1st. Appointment for six months with possibility of extension. Salary at the rate of £200 per annum, with board, residence, and laundry. Two weeks' holiday for each six months' service.

Applications, stating age, qualifications, and experience, with copies of three recent testimonials, to be addressed to the Secretary-Superintendent, and to reach him not later than February 11th, 1939.

City of Birmingham.

PUBLIC ASSISTANCE COMMITTEE.

ERDINGTON HOUSE.

ASSISTANT RESIDENT MEDICAL OFFICER.

The Public Assistance Committee invite applications from fully qualified Medical Practitioners for appointment as Assistant Resident Medical Officer at Erdington House, Birmingham.

The Institution, which is approved for the purposes of the D.P.M., has accommodation for approximately 1570 inmates and is set apart for the reception of all classes of mental and nervous disorder. The admission rate is 1300 per annum. Parts of the Institution are certified under the provisions of the Mental Deficiency Acts, 1913–1927. There are facilities for research on the pathological and biological side, and the appointment gives opportunities for post-graduate study.

The officer appointed will be required to assist in the general medical work of the Institution under the supervision of the Senior Medical Officers.

The appointment will be for a period of twelve months. The salary attached to the appointment will be at the rate of £300 per annum, together with full residential emoluments (rations, apartments, laundry, and attendance).

Four weeks' leave of absence will be granted to the successful candidate during the term of office.

The appointment will be subject to one month's notice on either side.

Any further particulars as to the Institution and/or duties may be obtained upon application to the Medical Officer of the Institution, Dr. H. T. Kirkland, to whom applications, stating age, experience, and qualifications, accompanied by copies of recent testimonials, should be forwarded so as to reach him not later than 10 A.M. on Wednesday, 8th February, 1939.

Canvassing in any form oral, or written, direct or indirect, will be regarded as a disqualification.

F. H. C. WILTSHIRE, Town Clerk.

Council House, Birmingham, 1, 19th January, 1939.

Surrey County Council.

PUBLIC HEALTH DEPARTMENT.

CUMBERLAND HOUSE HOSPITAL, MITCHAM (110 Beds.)

RESIDENT ASSISTANT MEDICAL OFFICER.

Applications are invited for the above appointment at a salary of £350 to £450, rising by four annual increments of £25, plus full residential emoluments valued at £125. The tenure of office is limited to five years, and the appointment is subject to deductions in accordance with the provisions of the Local Government and other Officers' Superannuation Act, 1922.

Cumberland House will be used mainly as an Auxiliary Hospital for acute patients transferred from the Council's acute hospitals to complete their treatment. Applicants must have held previous resident hospital appointments and should preferably have a higher qualification and have had experience in general practice.

Applications, stating age, qualifications, and experience, and enclosing copies of not more than three recent testimonials, should be sent to the County Medical Officer, County Hall, Kingston-upon-Thames, so as to be received not later than February 11th.

DUDLEY AUKLAND, Clerk of the Council.

County Hall, Kingston-upon-Thames, 23rd January, 1939.

County Council of the West Riding of YORKSHIRE.

PUBLIC HEALTH LABORATORY.

ASSISTANT BACTERIOLOGIST.

The County Council of the West Riding of Yorkshire invite applications for the appointment of Assistant Bacteriologist.

Applicants must be registered Medical Practitioners with experience of Public Health, Bacteriology, and Clinical Pathology.

The salary will be £500 per annum, rising by annual increments of £25 to £700 per annum. The commencing salary may be above the minimum in the case of a candidate having suitable experience.

The appointment will be subject to the provisions of the Local Government and Other Officers' Superannuation Act, 1922.

Further particulars and form of application may be had from the undersigned, by whom all applications, together with copies of not more than three recent testimonials, must be received not later than 13th February, 1939.

J. CHARLES MCGRATH, Clerk of the County Council.

County Hall, Wakefield, January, 1939.

The Southampton Children's Hospital AND DISPENSARY FOR WOMEN.

The Board of Management invite applications for the post of RESIDENT MEDICAL OFFICER (Lady). Six months' appointment. Salary at the rate of £150 per annum, with board, residence, and laundry.

Applications, stating age and accompanied by copies of testimonials, to be sent to the undersigned not later than 17th February, 1939. The selected candidate will be required to take up her duties on 1st March, 1939.

ELLA K. MATTHEWS, Secretary.

City of Portsmouth.

RESIDENT MEDICAL OFFICER AT THE INFECTIOUS DISEASES HOSPITAL AND ASSISTANT MEDICAL OFFICER OF HEALTH.

Applications are invited from unmarried Medical Practitioners (Male) possessing the Diploma in Public Health for the above appointment. Salary £500–£700, rising by annual increments of £25, inclusive of residential emoluments which are valued at £125.

The gentleman appointed will be required to devote his whole time to the office, which will also include duties in connexion with the work of the Public Health Department as assigned to him by the Medical Officer of Health.

The position is designated as an established post under the Local Government and Other Officers' Superannuation Act, 1922, and the total salary will be subject to the statutory deduction of 5 per cent. under that Act. The successful candidate will be required to pass a medical examination.

Application forms may be obtained from and must be returned to the Medical Officer of Health, The Guildhall, Portsmouth, not later than Monday, 13th February, 1939.

Canvassing will be a disqualification.

F. J. SPARKS, Town Clerk.

The Guildhall, Portsmouth, 24th January, 1939.

Barrow Hospital for Nervous and MENTAL DISEASES, BARROW GURNEY, near BRISTOL.

RESIDENT HOUSE PHYSICIAN.

Applications are invited for the post of Resident House Physician at this Hospital.

Candidates should be registered Medical Practitioners not over thirty-five years of age and should have held a resident post in a General Hospital.

The appointment is for six months from March 1st. The salary is at the rate of £200 per annum, plus full residential emoluments.

The Hospital is equipped with every facility for modern treatment and research.

Application, together with copies of two testimonials and a recent photograph, should be sent to the Physician, Barrow Hospital, Barrow Gurney, near Bristol, before February 14th.

Addenbrooke's Hospital, Cambridge.

Applications are invited for the post of HOUSE SURGEON to the Special Departments with care of beds for ear, nose, and throat, eye, gynæcological, and maternity cases.

The appointment will be for six months from February 10th, 1939, but is terminable at an earlier date by one month's written notice on either side.

Salary at the rate of £130 per annum, with board, residence, and laundry.

Candidates (Male), who must be unmarried and duly registered, are requested to forward their applications, stating age, qualifications, etc., together with copies of not more than four testimonials, to the undersigned on or before Tuesday, February 7th, 1939.

J. A. BEARDSALL, Secretary-Superintendent.

The Gloucestershire Royal Infirmary AND EYE INSTITUTION, GLOUCESTER. (232 Beds.)

FULL TIME ASSISTANT TO THE RADIOLOGICAL DEPARTMENT.

Applications are invited for the above post (non-resident). Salary £500 per annum.

Candidates must be registered Medical Practitioners and must hold a Diploma in Radiology.

The appointment is for one year, which may be renewed for a further period.

Further information may be obtained from the undersigned, to whom applications, stating age and qualifications, with copies of recent testimonials, should be sent on or before Wednesday, February 15th, 1939.

F. J. SYMONS, Secretary.

January 26th, 1939.

The Royal Northern Infirmary, INVERNESS.

Applications are invited for two posts of HOUSE PHYSICIAN (Male). Salary £100 per annum, board, residence, and laundry provided.

The appointments are for periods of six months, commencing early February and may be renewed.

Apply, Medical Superintendent.

County Borough of Huddersfield.

ST. LUKE'S HOSPITAL.

RESIDENT MEDICAL OFFICER.

Applications are invited from registered Medical Practitioners for above appointment, which is for one year. Salary £230 per annum, with board, residence, and laundry.

Applications, stating age, training, qualifications, and experience, should be forwarded to the Medical Officer of Health, Huddersfield, so as to reach him not later than 8th February, 1939.

SAMUEL PROCTER, Town Clerk.

Town Hall, Huddersfield, January, 1939.

County Borough of St. Helens.

ASSISTANT MEDICAL OFFICER OF HEALTH.

Applications are invited for the post of Assistant Medical Officer of Health (Male).

The duties will be mainly in connexion with the School Medical Service and Maternity and Child Welfare, but frequently include Infectious Diseases, Tuberculosis and General Sanitary work so that the post gives considerable general experience.

Candidates should have special experience in the diseases of children, and the possession of a Diploma in Public Health is very desirable.

The salary will be at the rate of £500 per annum, plus travelling expenses, rising by annual increments of £25 to a maximum of £700 per annum, but in the case of a candidate now in the service of another authority on a raising scale, recognition may be given to past service with such authority in fixing the commencing salary.

The appointment is subject to the provisions of the Local Government and Other Officers' Superannuation Act, 1922, and, in due course, the Local Government Superannuation Act, 1937, and to the successful candidate passing the necessary medical examination.

Forms of application may be obtained from the Medical Officer of Health, Town Hall, St. Helens, and completed applications accompanied by copies of not more than three recent testimonials, should reach him not later than the 20th February, 1939.

Canvassing members of the Council or Committees of the Corporation will be a disqualification.

FRANK HAUXWELL, Medical Officer of Health.

Town Hall, St. Helens, 28th January, 1939.

Leicester Royal Infirmary.

(500 Beds.)

Staff: 4 H.S., 3 H.P., 2 C.O., 3 Res. Anæs., 1 Res. Radiologist.

VACANCIES FOR APRIL 1st, 1939.
PRELIMINARY NOTICE.

2 HOUSE PHYSICIANS.

Salary £125 per annum. Applicants must have held a Resident Hospital post or had similar experience of Hospital work.

3 HOUSE SURGEONS.

Salary £125 per annum. Applicants must have held a resident Hospital post or had similar experience of Hospital work.

Unsuccessful candidates will be considered for Senior Casualty Officer, if they so intimate.

CASUALTY OFFICERS.

Senior Casualty Officer, Fellowship standard. Salary £125 per annum.

Junior Casualty Officer. Salary £100 per annum.

2 RESIDENT ANÆSTHETISTS

Salary at the rate of £150 per annum for first six months. £200 per annum for second six months. £225 per annum for third six months. £250 per annum for fourth six months.

Application forms may be obtained from the House Governor and Secretary.

Appointments for six months will be made on the 1st March.

30th January, 1939.

Middlesbrough Education Committee.

APPOINTMENT OF ASSISTANT SCHOOL MEDICAL OFFICER.

Applications are invited from duly qualified Men for a position as ASSISTANT SCHOOL MEDICAL OFFICER in connexion with the medical inspection and treatment of school-children, and such other duties as may be required by the Education Committee. The person appointed will be generally responsible to the School Medical Officer.

Commencing salary £500 per annum (provided the successful candidate has had not less than three years' postgraduate experience) rising by annual increments of £25 to £700 per annum. The Committee will take into account previous experience as an Assistant School Medical Officer in determining the amount of the commencing salary. The successful candidate will be required to devote his whole time to the duties of the office. The appointment will be subject to the provisions of the Local Government and Other Officers' Superannuation Act, 1922, and the successful candidate will be required to pass satisfactorily a medical examination. The appointment will be terminable by two calendar months' notice on either side.

Forms of application may be obtained on application to the Director of Education, Education Offices, Woodlands-road, Middlesbrough, to whom completed forms should be returned not later than Saturday, 25th February, 1939.

Canvassing in any form will disqualify.

PRESTON KITCHEN, Town Clerk.

Town Clerk's Office, Municipal Buildings, Middlesbrough, 30th January, 1939.

Saint Mary's Hospitals, Manchester.

ASSISTANT RESIDENT OBSTETRIC OFFICER for the WHITWORTH STREET HOSPITAL (Maternity) for a period of six months from 1st April, 1939. Salary £100 per annum, with board and residence. Membership of the College of Obstetricians and Gynæcologists would be an advantage.

Applications, with copies of three testimonials, to be sent to the undersigned on or before the 13th February, 1939.

A. R. WISE, Superintendent and Secretary.

City of Birmingham.

MENTAL DEFICIENCY ACT COMMITTEE.
MONYHULL COLONY.

RESIDENT LADY ASSISTANT MEDICAL OFFICER.

Applications are invited from single or widowed ladies who are duly qualified and registered Medical Practitioners for the position of Resident Assistant Medical Officer at the above institution.

The commencing salary will be £350 per annum, rising subject to satisfactory service by increments of £25 to £450 per annum, with full residential emoluments consisting of board, lodging, laundry, and attendance, valued for superannuation purposes at £200 per annum. An additional £50 per annum will be paid to a holder of a recognised postgraduate qualification in psychological medicine. A person who has held a resident house appointment will be regarded as having an additional qualification.

The candidate appointed will be required to pass a medical examination and will be placed on the permanent staff after a probationary period, when she will be required to contribute under the Asylums Officers' Superannuation Act, 1909, as modified by the Asylums and Certified Institutions (Officers' Pensions) Act, 1918. The appointment is subject to one month's notice on either side.

Applications, stating full particulars of qualifications, experience, and appointments held, accompanied by copies of three recent testimonials, must be addressed to the undersigned so as to be received not later than 28th February, 1939, and should be endorsed "Appointment of Resident Lady Assistant Medical Officer, Monyhull Colony."

Canvassing either directly or indirectly will be a disqualification.

F. H. C. WILTSHIRE, Town Clerk.

Town Clerk's Office, Council House, Birmingham, 1.

The Warwickshire and Coventry Joint

COMMITTEE FOR TUBERCULOSIS.

KING EDWARD VII MEMORIAL SANATORIUM,
HERTFORD HILL, Near WARWICK.

Applications are invited for the post of JUNIOR ASSISTANT MEDICAL OFFICER (Man or Woman) at the Memorial Sanatorium, near Warwick, of 225 beds.

The salary will be at the rate of £250 per annum with board, lodging, and laundry in addition, and the successful candidate will be appointed for six months.

There are three other Medical Officers at the Sanatorium.

Applications, with copies of testimonials, should be forwarded direct to the Medical Superintendent at the Sanatorium to reach him by not later than Thursday, the 16th February, 1939.

L. EDGAR STEPHENS,
Clerk of the Joint Committee.

Shire Hall, Warwick, 30th January, 1939.

Northampton General Hospital.

(381 Beds.)

There will be vacancies for:—

(*a*) A CASUALTY OFFICER on the 1st March.
(*b*) A HOUSE SURGEON on the 11th March.
(*c*) A HOUSE PHYSICIAN on the 17th March.

Salaries will be at the rate of £150 per annum, with board, residence and laundry. Candidates, who must be duly qualified and registered, must be males, and of British Nationality. The successful candidates will be elected for the period ending 30th September, and will be eligible for re-election for a further period of six months.

Applications, stating age, qualifications, &c., with copies of three testimonials, must reach the undersigned not later than first post on Wednesday, 15th February, 1939.

GORDON S. STURTRIDGE, M.B., B.S., Superintendent.

30th January, 1939.

Ancoats Hospital, Manchester, 4.

HOUSE SURGEONS (two required), Lady or Gentleman. One for the EAR, NOSE, AND THROAT DEPARTMENT and to act as House Physician to one of the Honorary Physicians, and one for the ORTHOPÆDIC DEPARTMENT.

Both these appointments are for six months as from March 1st. Salary £100 per annum, with board, residence, washing, &c.

Applications, stating age, qualifications, experience (if any) and full particulars to be forwarded to the undersigned on or before 15th February, together with copies of three recent testimonials.

By Order of the Board.

HERBERT J. DAFFORNE, General Supt. and Secretary.

Bristol Eye Hospital.

82 Beds. (12 Private Patients.)
(1938) 1232 In-patients. 20,652 Out-patients.

Applications are invited for the post of JUNIOR HOUSE SURGEON. Salary £100 per annum. Senior post available after six months. Vacant 1st April, 1939.

Suitable experience for D.O.M.S.

Applications, stating age and qualifications, &c., with three recent testimonials, to reach the undersigned by 1st March next.

D. M. BABER, Secretary and House Governor.

The Children's Hospital, Sheffield.

ELECTION OF HONORARY OPHTHALMIC SURGEON.

Notice is hereby given that a Meeting of the Election Committee will be held at the Hospital on Wednesday, 8th March, 1939, at 5 P.M. to elect an Honorary Ophthalmic Surgeon.

Candidates are requested to send applications addressed to The Chairman, The Children's Hospital, Western Bank, Sheffield, 10, on or before Wednesday, 22nd February, 1939.

Canvassing of any member of the Election Committee will be strongly discouraged.

T. H. G. GARTLAND,
Superintendent and Secretary.

The Children's Hospital, Sheffield.

(157 Beds.)

Applications are invited for the post of HOUSE PHYSICIAN vacant 1st March, 1939.

The appointment is for six months. Salary £100 per annum with board, residence, and laundry. Candidates (Male and unmarried) who must possess registered qualifications, should forward applications stating age, nationality, &c., together with copies of three recent testimonials to the undersigned.

T. H. G. GARTLAND, Superintendent and Secretary.

Bath and Wessex Children's Orthopædic

HOSPITAL, COMBE PARK, BATH.

HOUSE SURGEON required 1st April, 1939.

The appointment will be for six months, with salary at the rate of £120 per annum, together with quarters, board, and laundry.

Orthopædic experience an advantage, together with experience in administering anæsthetics.

Applications, with copies of three recent testimonials, should reach the undersigned not later than first post on 20th February.

HAROLD J. FRICKER, Secretary.

1st February, 1939.

The King Edward VII Memorial,

ELIOT HOSPITAL, HAYWARDS HEATH.
(Incorporated.)

Applications are invited for the appointment of HONORARY SURGEON to the above Hospital.

Applicants should possess the Degree of Master of Surgery or the Diploma of the Royal College of Surgeons of England.

Particulars of the duties of the post may be obtained from the undersigned, to whom applications should be sent.

CHARLES HALES, Hon. Secretary, The King Edward VII Memorial, Eliot Hospital, Haywards Heath. (Incorporated.)

Westmorland County Hospital,

KENDAL. (Beds 82.)

HOUSE SURGEON (Female) required, 1st March. Appointment is for six months, renewable for a further six months. Salary £200 per annum, with board, residence, and laundry.

Applications, stating age, nationality, and qualifications, with copies of three recent testimonials, to be addressed to the Hon. Sec., J. M. SOMERVELL, not later than 15th February.

Norfolk and Norwich Hospital,

NORWICH.
(440 Beds.)

Applications are invited for the post of HOUSE SURGEON. Salary £120 per annum, with board, residence, and laundry. Candidates (Male) must be unmarried and must possess registered qualifications.

Applications, stating age, nationality, &c., together with copies of testimonials, should be forwarded to the undersigned not later than first post on Tuesday, 14th February.

FRANK INCH, House Governor and Secretary.

4th February.

The Cassel Hospital for Functional

NERVOUS DISORDERS, SWAYLANDS,
PENSHURST, KENT.

LOCUM TENENS (Male) required for the above hospital for a period of six months from April 15th. Previous experience in the treatment of the psychoneuroses essential. Salary eight guineas a week, with board, residence, and laundry.

Applications to be sent in as soon as possible to the Medical Director enclosing testimonials.

Hull Royal Infirmary.

Applications are invited for the post of SECOND CASUALTY OFFICER (Male) vacant February 23rd.

Salary £150 per annum, plus board, residence, and laundry.

In addition to carrying out duties in the Casualty Department the officer appointed will act as House Surgeon to one of the Honorary Assistant Surgeons, and will thus obtain Ward and Theatre experience. He will be eligible for promotion to a more senior post when a vacancy occurs.

The appointment will be for a period of six months, but will be determinable at any time by one month's notice on either side.

Applications, giving particulars of age, experience, and nationality, together with copies of testimonials, should be addressed to the undersigned.

R. J. CARLESS, House Governor.

23rd January, 1939.

The Royal Hospital, West Street,

SHEFFIELD, 1.

There is a Vacancy on our RESIDENT STAFF. Salary at the rate of £80 per annum, rising to £100 per annum in six months, with board, residence and laundry.

Applications should be sent at once to :—

W. H. BOOTH, Superintendent and Secretary.

Rochdale Infirmary and Dispensary.

(110 Beds. Three Residents.)

The Board of Management invites applications for the appointment of HOUSE PHYSICIAN (Male). The salary attached to the appointment is at the rate of £150 per annum with board, residence, and laundry. The duties include work in the Out-patient, Aural, Ophthalmic, &c., Departments as well as in the wards. The Hospital covers a large industrial area, and affords excellent opportunity for experience.

Applications, stating age, nationality, with three recent testimonials, to be sent to the Secretary, Rochdale Infirmary.

W. WYNNE, Secretary.

Infirmary Office, Rochdale.

The Salisbury General Infirmary, Wilts.

(200 Beds. 4 Residents.)

Applications are invited for the following posts, vacant on 1st March, 1939.

Two HOUSE SURGEONS. Salary £125 per annum, with board, residence, and laundry. Tenable for a period of six months and renewable.

Candidates (Male) must be unmarried.

Applications, stating age, nationality, qualifications, &c., together with copies of testimonials, should reach the undersigned not later than Saturday, 11th February, 1939.

JOHN WILLIAMS, Secretary-Superintendent.

Hounslow Hospital, Middlesex.

Applications are invited for the appointment of ANÆSTHETIST. An honorarium of £1 1s. per session is payable.

Applications, with copies of three recent testimonials, should be addressed to the Secretary not later than February 14th. Applicants will be furnished with a list of session times, &c.

St. Anne's Hospital, Altrincham,

CHESHIRE.

Wanted, a RESIDENT SURGICAL OFFICER (Male) for the above Hospital (50 Beds). Must be registered. Salary £200 per annum, with board, apartments, &c. This Hospital is the Ear, Nose, and Throat Department of the Manchester Hospital for Consumption and Diseases of the Ear, Nose, Throat, and Chest, and duties include attendance on two mornings a week at the Out-patient Department, Manchester.

Applications, with copies of testimonials, to be sent not later than February 18th to W. HUNT, Secretary, 45, Hardman-street, Deansgate, Manchester, 3.

The Royal Portsmouth Hospital,

PORTSMOUTH.
(Six Resident Medical Officers.)

Applications are invited for the post of HOUSE PHYSICIAN (Male) qualified. Salary at the rate of £130 per annum, with board, &c. To commence duty about the 23rd February, 1939.

Six months' appointment. Eligible on completion of term for extension or other resident posts.

Applications, stating age, nationality, &c., and copies of three recent testimonials, to be sent to the undersigned on or before 13th February, 1939, from whom all particulars can be obtained. B. WAGSTAFF, Secretary.

The Royal Hospital, Wolverhampton.

(Incorporated under Charter.)

RESIDENT ANÆSTHETIST.

Applications are invited for the post of Resident Anæsthetist. The appointment will be for six months, renewable, and the salary £200 per annum, with board and residence. Duties to commence as soon as possible.

The Hospital contains 300 Beds, at present being enlarged to 400 Beds, and is approved by the General Medical Council for part of the requisite attendance on Medical and Surgical Practice.

Applicants should provide evidence of their experience in modern anæsthetic methods; applications should be sent to the undersigned, from whom further information required about the post may be obtained.

W. H. HARPER, House Governor.

Wolverhampton, 24th January, 1939.

Walsall General Hospital.

The Committee invite applications from Men for the post of CASUALTY HOUSE SURGEON. Must have had previous experience in the administration of Anæsthetics.

Candidates, who must be registered under the Medical Acts, must produce three recent testimonials. The appointment will be for six months. Salary at the rate of £150 per annum. The Hospital will shortly contain 175 beds and is equipped in all Special Departments.

Applications to be sent at once to the undersigned.

WALTER FRANCOMBE, House Governor.

18th January, 1939.

Royal Borough of Kingston-upon-THAMES.

MEDICAL ASSISTANT TO MEDICAL OFFICER OF HEALTH.

Applications are invited from qualified Medical Practitioners for the appointment of a full-time Medical Assistant (Male) in the Public Health Department at a salary in accordance with the Askwith Memorandum commencing at £600 per annum.

Applicants should have had experience in public health administration and must hold a diploma in sanitary science, public health, or state medicine.

The person appointed will be required to act under the direction and supervision of the Medical Officer of Health (who is also School Medical Officer and Maternity and Child Welfare Officer) in carrying out the relevant statutory duties and such other duties as may from time to time be assigned to the Medical Officer, and he will be required to assist in the work of the Casualty Services in connexion with Air-Raid Precautions.

The appointment, which will be determinable by three months' notice on either side, will be subject to the Local Government Superannuation Act, 1937, and to the person appointed passing a medical examination.

Applications, on forms to be obtained from the Medical Officer at the Guildhall, accompanied by copies of three recent testimonials, must be received by me not later than Friday, the 24th February, 1939.

A. W. FORSDIKE, Town Clerk.

Guildhall, Kingston-upon-Thames, 31st January, 1939.

City of Manchester.

CRUMPSALL HOSPITAL. (1543 Beds.)
(Recognised under regulation for the F.R.C.S.)

The Public Health Committee invites applications from registered Medical Men for the post of RESIDENT ASSISTANT MEDICAL OFFICER at the above-named hospital.

The salary for the appointment is £200 per annum, with board, residence and laundry in addition, subject to the Manchester Corporation conditions of service.

The appointment will be made in the first instance for a period of six months, renewable for a further six months, but not renewable thereafter.

Full information and forms of application may be obtained from the Medical Officer of Health, Town Hall, Manchester, 2, and applications for the post must be received by him not later than 15th February, 1939.

R. H. ADCOCK, Town Clerk.

Town Hall, Manchester, 2, 31st January, 1939.

University of Oxford.

NUFFIELD COMMITTEE FOR THE ADVANCEMENT OF MEDICINE.

The Committee invites applications for the post of GRADUATE ASSISTANT in the Department of Pathology at the Radcliffe Infirmary. Candidates must be medically qualified. The appointment is for one year in the first instance with the possibility of renewal, and the initial salary will be not less than £251 nor more than £300, according to qualifications and experience. The person appointed will take part in the routine morbid anatomical work of the department and will have opportunities for original work.

The appointment will date from 1st April, 1939, or such other near date as may be arranged.

Applications must reach Dr. ROBB-SMITH, Radcliffe Infirmary, not later than the first post on Saturday, 25th February, 1939, and must be accompanied by a full statement of qualifications and the names of not more than three referees. Testimonials are not required.

Inquiries about the post should also be made to Dr. Robb-Smith.

Berkshire Mental Hospital, Wallingford.

Applications are invited from Registered Medical Practitioners for the post of DEPUTY MEDICAL SUPERINTENDENT of the above Hospital. Salary £600 per annum, rising by annual increments of £25 to a maximum of £700, together with emoluments valued at £100 per annum details of which will be furnished on application.

Candidates who should be not more than forty years of age must have had previous Mental Hospital experience and be in possession of the D.P.M. or equivalent degree.

The appointment is subject to the provisions of the Asylums Officers' Superannuation Act, 1909.

Applications in writing, together with copies of three testimonials, should reach the Medical Superintendent not later than first post on Monday, 20th February.

Applications are also invited for the post of THIRD ASSISTANT MEDICAL OFFICER at the above Hospital. Salary £350 per annum, rising by annual increments of £25 to a maximum of £450, together with board, furnished apartments and laundry, valued at £130 per annum. An additional amount of £50 per annum is payable if in possession of the D.P.M.

The appointment is subject to the provisions of the Asylums Officers' Superannuation Act, 1909.

Applications in writing, together with copies of three testimonials, should reach the Medical Superintendent not later than first post on Monday, 20th February.

Addenbrooke's Hospital, Cambridge.

Applications are invited for the post of HOUSE SURGEON. The appointment will be for six months from March 1st, 1939, but is terminable at an earlier date by one month's written notice on either side. Salary at the rate of £130 per annum, with board, residence and laundry.

Candidates (Male), who must be unmarried and duly registered, are requested to forward their applications, stating age, qualifications, &c., together with copies of not more than four testimonials, to the undersigned on or before Wednesday, February 8th, 1939.

J. A. BEARDSALL, Secretary-Superintendent.

The Royal Army Medical Corps ASSOCIATION, 85, Eccleston-square, S.W.1 (Telephone: Victoria 2722), supplies qualified Dispensers, Book-keepers, Laboratory Assistants, Sanitary Assistants, Male Nurses, Mental and Special Treatment Orderlies, Dental Clerk Orderlies, Porters, Caretakers, &c., without charge to respective employers.

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TOWN HALL ANNEXE.

Tenders are hereby invited for MEDICAL REQUISITES, SURGICAL AND DENTAL EQUIPMENT, in connexion with the above.

Schedules and Forms of Tender may be obtained from the Town Clerk, Town Hall, East Ham, E.6, and must be returned to His Worship the Mayor, Town Hall, East Ham, E.6, not later than first post on Friday, 10th February, 1939.

No tender will be received except in a plain sealed envelope endorsed "Tender for Medical Requisites, Etc.", but which shall not bear any name or mark indicating the sender.

The Council do not bind themselves to accept the lowest or any tender.

E. W. JOSLIN, Town Clerk.

Town Hall, East Ham, E.6, 1st February, 1939.

Several Good Secondhand Microscopes and Objectives, by Ross, Zeiss, Watson, &c., to be cleared at very low prices. Details on application.—City Sale and Exchange (1929), Ltd., 93–4, Fleet-street, E.C.4.

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St. Leonards-on-Sea.—Detached House for Sale. Excellent position for Doctor, Dentist, Nursing-home, &c. Full particulars from OWNER, 33, Kings-road, St. Leonards-on-Sea.

Harrogate. — Residence at present occupied by Medical Man in recognised position for medical profession; gardens, garage and 2-stall stable. Price £1550 or to let, Rent £100 per annum.—MORPHET & MORPHET, Estate Agents, Harrogate.

Golders Green.—Det. D.-F. Residence of important appearance. Prominent position, designed for doctor. Suitable other professional purposes; 5 bed., 4 recep., spacious hall, cloakroom, 3 w.c's. Secondary entrance. Exc. domestic offices. F.S. brick garage. Garden. Modern decorations and equipment. Lease 72 yrs. G.R. £18. Price £3750. Sole Agents—ERNEST OWERS, facing tube sta., Golders Green, N.W.11.

Enfield.—For Sale, £1900. Modern well-built FREEHOLD RESIDENCE. 8 rooms, large garage. Corner site facing public library, near main shopping district and bus terminal. Excellent location for doctor or dentist. Telephone: ENFIELD 0526.

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2. KENT COAST.—Favourite Residential Town.—Well-estab. mainly better-class non-panel, non-dispensing PRACTICE averaging about £1200 p.a. Choice of houses. Premium 1½ years' purchase. Scope for surgery.
3. OUTLYING WESTERN DISTRICT.—PARTNERSHIP.—A Share estimated to produce about £1100 p.a. (with increase later) in well-estab. good mixed-class Practice producing about £6000 p.a. with large panel. Suitable house on rental. Premium 2 years' purchase.
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7. SUFFOLK.—Market Town.—Old-estab. PRACTICE producing about £1100 p.a. Panel of about 1470 patients and 290 P.M.S. patients. Two appointments stated to be transferable. Well-built, recently redecorated house with 7 bedrooms, &c. Freehold for sale. Premium £2000.
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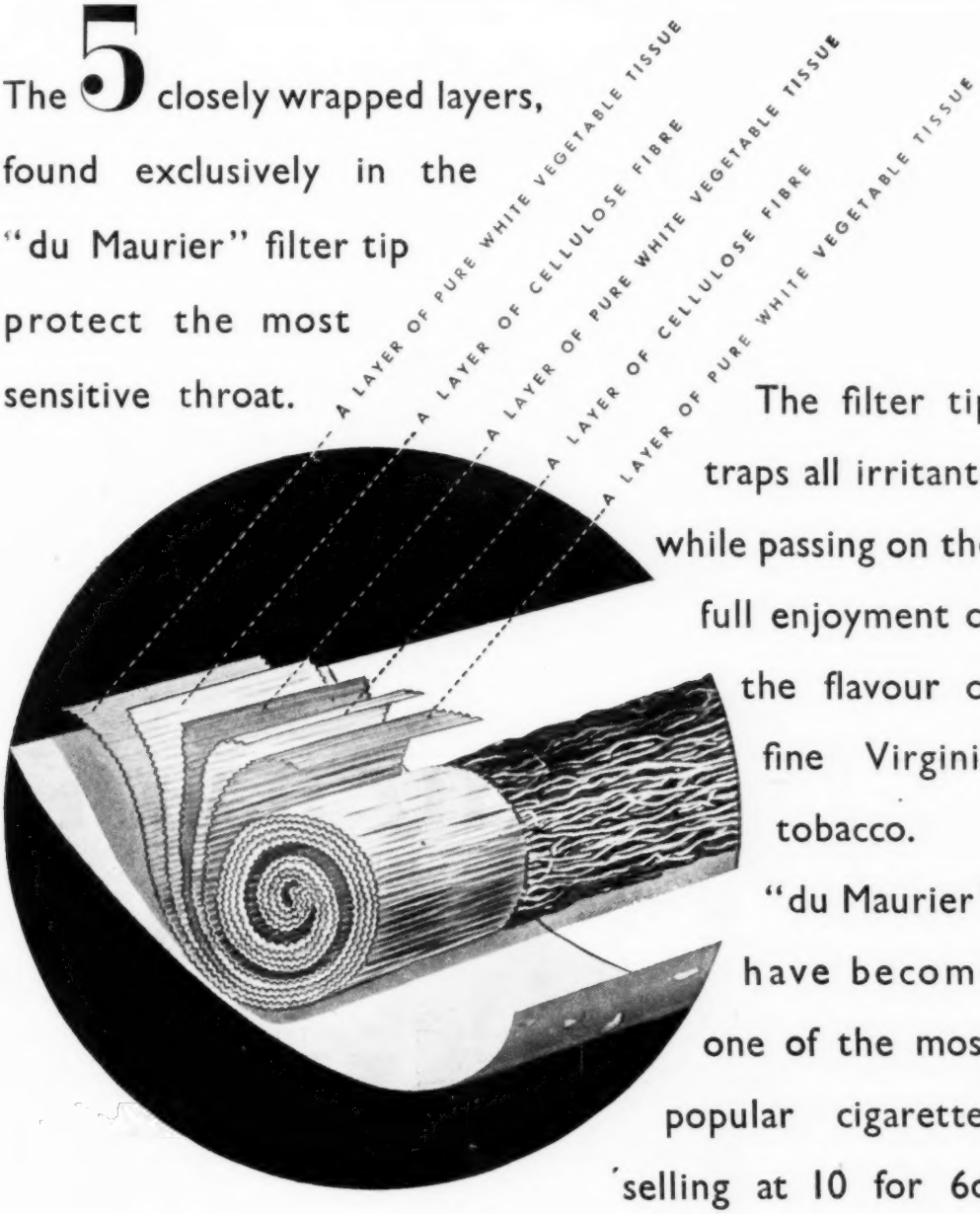

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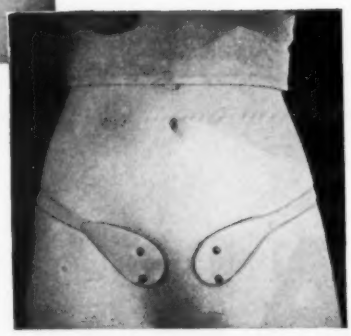

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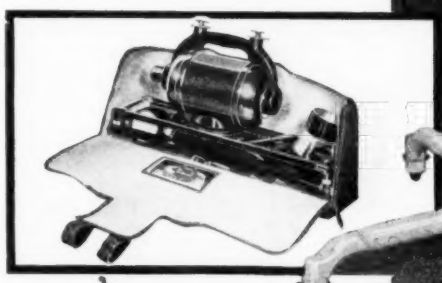

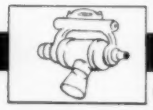

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for all stages of convalescence

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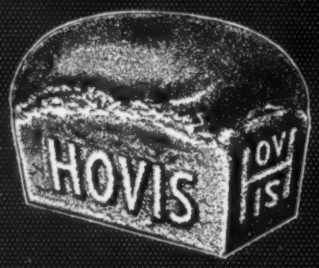
25% ADDED GERM OF WHEAT

HŌVIS contains all the elements of a complete food and is very easily absorbed into the system



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COMPOSITION—Ext. Cascaræ, Ext. Rhei, Jalapin, Podophyllin, Cocainæ Hydrochlor., 1-20th gr. in each fluid drachm.

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A POPULAR remedy for Chronic Biliousness, Catarrhal Jaundice and the Jaundice of simple Hepatic Torpor. **In passive or habitual Congestion of the Liver it has been used with marked benefit.**

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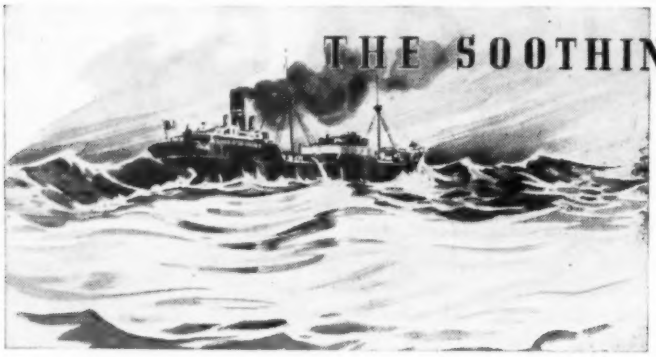

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* LANCET, DECEMBER 10th, 1938, p. 1381

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CLINICAL REPORT

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- Intermittent pyloric stenosis, not of organic origin.

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- Congestion due to excessive or improper feeding.
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The diabetes of corpulent people. Arthritic obesity. Uricæmia and gout. Rheumatic gout.

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Made to a formula of the Liverpool Throat Hospital.

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Being free from narcotics these pastilles are ideal for Speakers, Actors and Singers

Physicians will find them very comforting to the throat during inclement weather.

Price 1/- per tin.

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CLINICAL RESEARCH HAS REVEALED THAT THE OUTSTANDING ACTION OF THIS FRACTION IS THAT OF CHECKING THE FUNCTIONAL UTERINE HÆMORRHAGE OF MENORRHAGIA AND METRORRHAGIA.

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Samples will gladly be forwarded on application, supported by professional card, to:—
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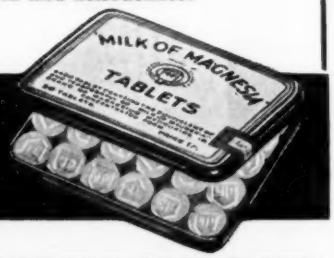

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When the periods are irregular, due to constitutional causes, ERGOAPIOL (Smith) is a reliable prescription. Containing apiol (M.H.S. special) together with ergot, aloin and oil of savin of the highest quality, this preparation effectively stimulates uterine tone and controls menstrual and postpartum bleeding.

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DOCTORS AGREE

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SUSTAINS STRENGTH SAFELY

BRAND'S Chicken or Beef ESSENCE

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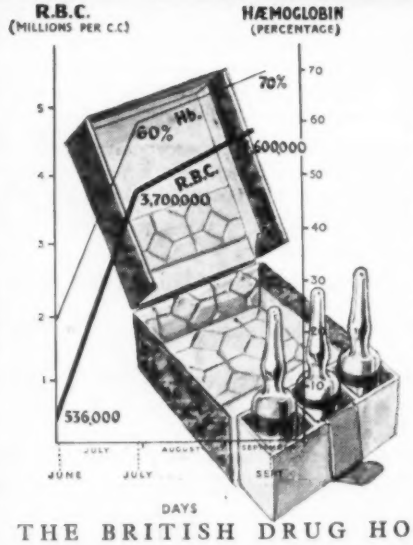

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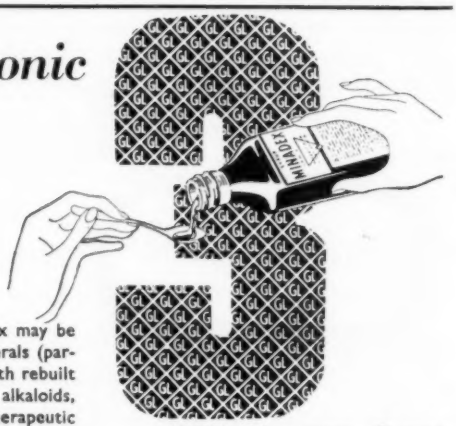

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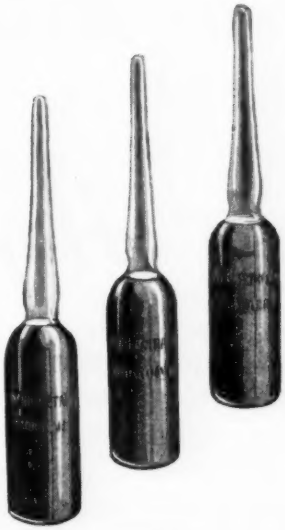

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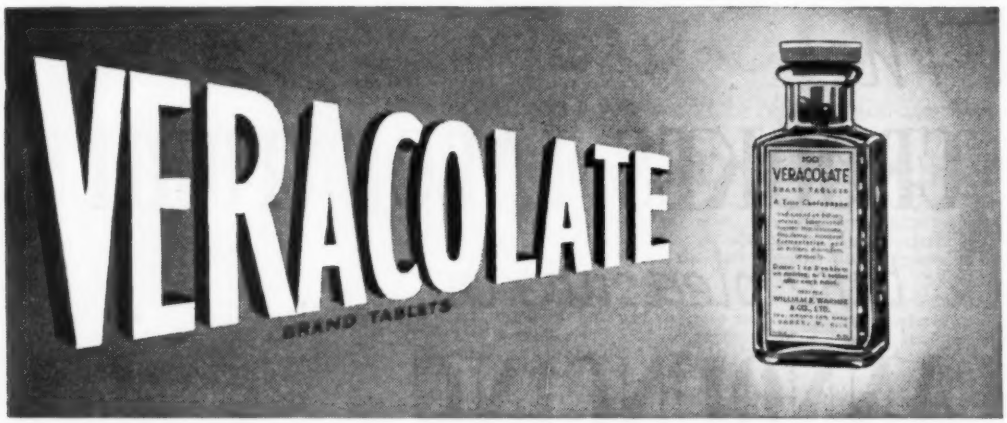

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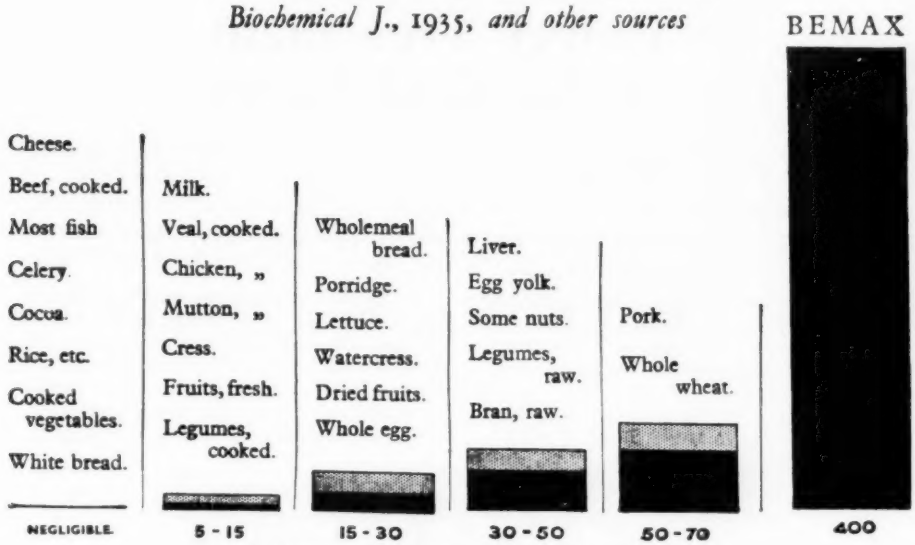
VITAMIN B_1 IN FOODS

Biochemical J., 1935, and other sources



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(*B.M.J.*, 16 *Oct.*, 1937, *p.* 753)

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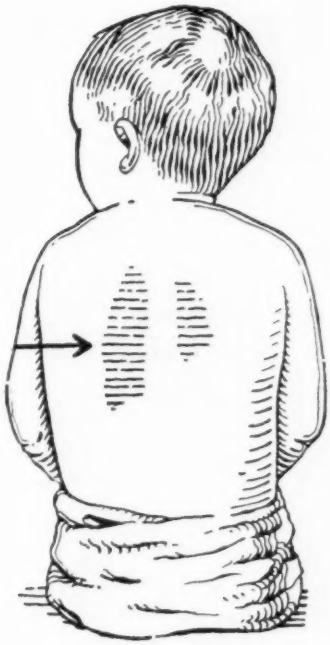

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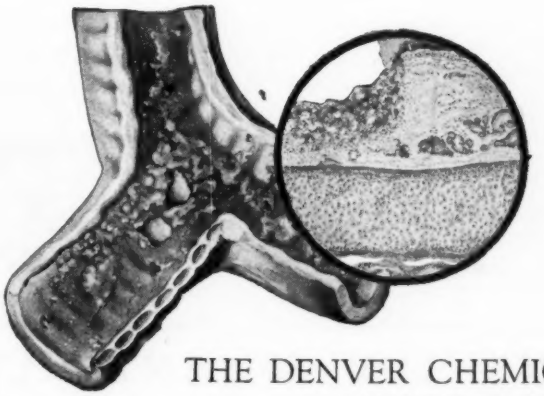

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Paranasal Sinusitis

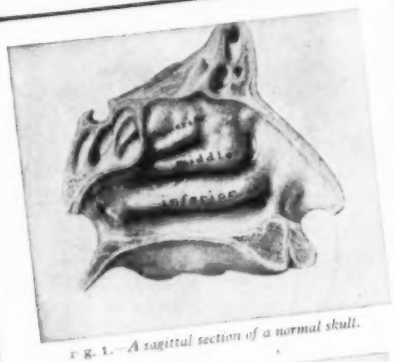

Fig. 1.—*A sagittal section of a normal skull.*

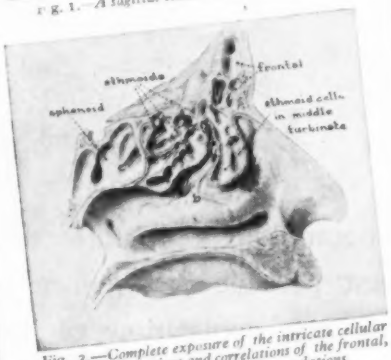

Fig. 2.—*Complete exposure of the intricate cellular inter-communications and correlations of the frontal, sphenoidal, and maxillary sinus relations.*

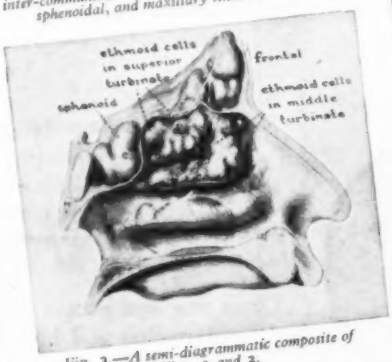

Fig. 3.—*A semi-diagrammatic composite of Figs. 1 and 2.*

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(*Clin. Med. & Surg.*, Jan., 1937.)

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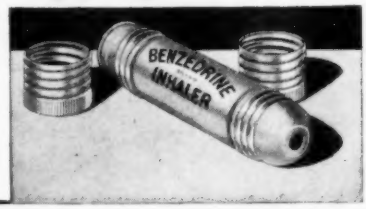

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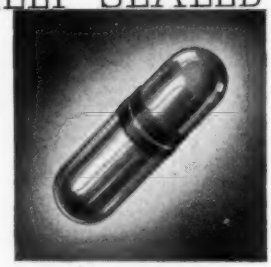

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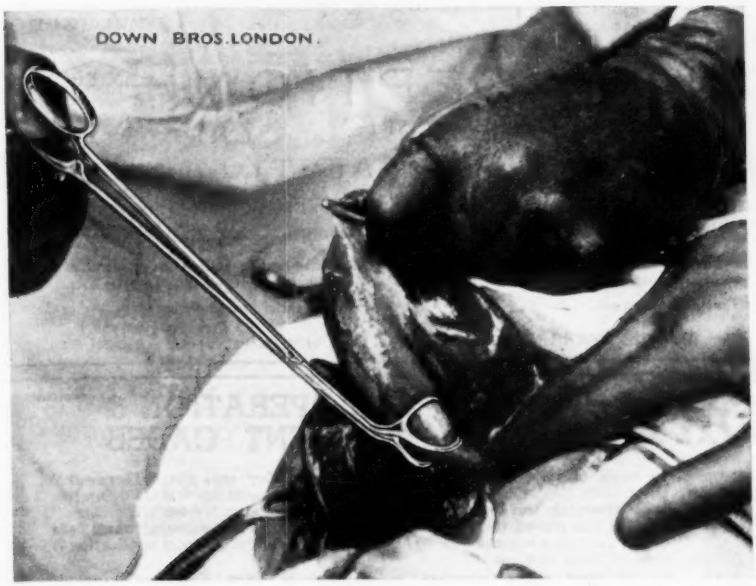

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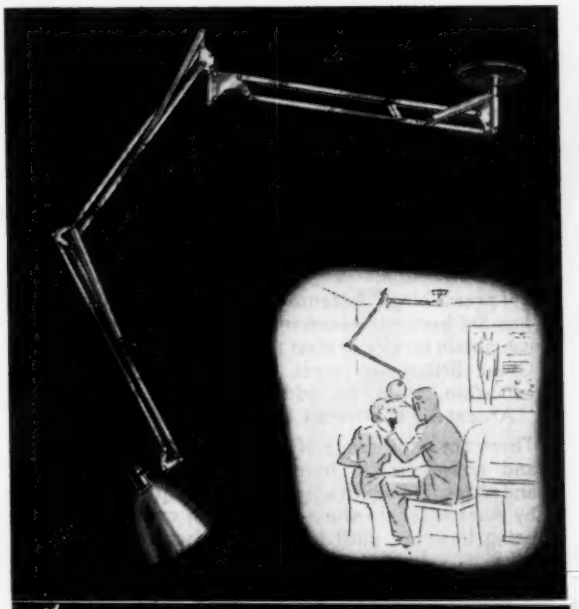

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For terms and further particulars apply to the Medical Superintendent (TELEPHONE: No. 2356 and 2357 Northampton), who can be seen in London by appointment.

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TELEPHONE 165

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A PRIVATE HOME for the care and treatment of a limited number of Ladies Mentally Afflicted.

Climate healthy and bracing.

Apply to Dr. McCLINTOCK, Proprietor and Resident Medical Superintendent.

FENSTANTON

Christchurch Road, Streatham Hill, S.W.2

A Private Home for the Treatment of LADIES with Mental and Nervous Disorders. Psycho-Therapy, Physio-Therapy, &c. 12 acres of grounds

Apply: **Dr. MADELINE R. LOCKWOOD,**
phone: TULSE HILL 7181 *Resident Physician Superintendent.*

CITY OF LONDON MENTAL HOSPITAL

Near DARTFORD, KENT.

Ladies and Gentlemen received for treatment under certificates, and without certificates as either VOLUNTARY or TEMPORARY PATIENTS, at a weekly fee of £2 9s., and upwards.

The Physical Treatment Centre that is "different"!

50 minutes from London (Victoria), 15 minutes from Brighton. Standing in 7 acres of lovely grounds at the foot of the South Downs.

Climate, mild but not relaxing. No fogs, sheltered from cold winds.

Comfort, Service and every facility for Physical Treatment, without irksome restrictions of nursing home or clinic.

Treatments, include: Foam Baths, Ultra-Violet and Infra-red Ray, Diathermy, and other Electrical treatments, Pistany Mud Packs, etc. Massage and Remedial Exercises, Fully-qualified staff. Resident Physician.

Convalescent patients specially catered for.

Electric Lift to all floors. Fully Licensed. Superb Cuisine, Special Dieting if required.

● *Medical Practitioners are cordially invited to visit the Restorium. Write for Brochure and Terms to: Physician in Charge, Sunnyside Restorium, Hassocks, Sussex. Telephone: Hassocks 103*

Sunnyside
Restorium

HASSOCKS . . SUSSEX

SAN REMO OSPEDALETTI BORDIGHERA

THE THREE PEARLS OF THE ITALIAN RIVIERA

Mild climate, brilliant sky and pure air—during Winter daily 9–12 hours' sunshine—quiet and favoured resort for convalescents and people in need of quietude.

SAN REMO EXCELSIOR First class, quiet, protected South position in the East Bay. Diet cures. Sun verandas. Sea—and medical bathing. Tennis. Open the whole year round.

RHEUMA SPA, KINMEL HALL,

ABERGELE, NORTH WALES

Modern Spa Treatments, including Continental Pistany Mud and Scotch Douche, for Rheumatic and similar disabilities. Resident Physician. Excellent amenities and Recreational facilities.

IDEAL WINTER QUARTERS—REDUCED RATES

Smedley's
Great Britain's Greatest Hydro
Matlock

Unrivalled suites of Baths—Turkish and Russian Baths, Aix and Vichy Douches, Massage; Plombières Treatment. Studs Chair. Electric Installation for Baths and other Medical Purposes, Dowsing Radiant Heat, Infra-red Light, Artificial Sunlight, D'Arsonval High Frequency, Diathermy, Nauheim Baths, Soapless Foam Baths, etc. "Certified" Milk from own farm. Large Winter Garden. Orchestra. Special provision for Invalids. Night attendance. Over 60 trained Male and Female Nurses, Masseurs, Attendants, etc.

Resident Physicians: G. C. R. HARRINSON, M.B., B.Ch., B.A.O. (R.U.I.), H. RHYS DAVIES, B.A., M.B., B.Ch., B.A.O. **TERMS, 13s. to 18s. per day, include Turkish and other Baths.** *Illustrated Brochure C.J. on request.*

'Phone: Matlock 17 (3 lines). *'Grams:* Smedleys, Matlock.

THE MARINE SPA
(under the direction of the Corporation)
TORQUAY

Newly fitted Balneological, Electro-Medical, and Small Turkish and Russian Bath sections for recognised forms of Spa, etc., treatment, under mild winter climatic conditions. Large Cooling Lounge, and "Vita" Glass Sun Lounge. Warm Sea-Water Swimming Bath with modern filtration plant. Assistants with C.S.M.M.G., and Bio-Physical qualifications.

Illustrated Spa and Health Resor Brochures post free on application.
H. Berkeley Hollyer, General Manager.
(late Manager, Brine Baths, Droitwich Spa)

The Elizabeth Garrett Anderson HOSPITAL, Euston-road, N.W.1.

The Managing Committee invite applications from qualified Medical Women for the honorary appointment of:—
ASSISTANT to the EAR, NOSE, AND THROAT DEPARTMENT.
Candidates should have the F.R.C.S. or should obtain it within a reasonable time.
Applications, with copies of three testimonials, should be sent to members of the Honorary Medical Staff, a list of whom is furnished on receipt of application. Fifteen copies are required for the Managing Committee and should be addressed to the undersigned on or before the 24th February, 1939.
JEAN R. MURRAY, Secretary.

The Committee of Management of the

Seamen's Hospital Society invite applications for the appointment of PHYSICIAN WITH CHARGE OF OUT-PATIENTS at the DREADNOUGHT SEAMEN'S HOSPITAL, GREENWICH. The elected candidate will have beds allotted to him, and will be appointed for twelve months, but will be eligible for re-election.
Candidates must be Doctors or Bachelors of Medicine of a University in the United Kingdom, and Fellows or Members of the Royal College of Physicians, London.
Applications to be sent in on or before the 1st March to the undersigned, from whom further particulars can be obtained.
By Order.
F. A. LYON, Secretary.
27th January, 1939.

Dreadnought Seamen's Hospital, Greenwich, S.E.10.

The Committee of Management of the Seamen's Hospital Society invite applications for the post of HONORARY DERMATOLOGIST. The elected candidate will have care of In- and Out-Patients and will be appointed for twelve months, but will be eligible for reappointment.
Candidates must be Doctors of Medicine of a University in the United Kingdom, or Ireland; or Fellows or Members of the Royal College of Physicians, London.
Applications to be sent in on or before the 24th February to the undersigned from whom further particulars can be obtained.
By Order,
16th January, 1939. F. A. LYON, Secretary.

The Hospital for Sick Children, Great Ormond-street, London, W.C.1.

A RESIDENT MEDICAL ASSISTANT AND CLINICAL PATHOLOGIST is required as soon as possible after the 1st March, 1939. Salary £125 per annum.
The appointment is tenable in the first instance for one year, but may be held for a period of two years, subject to re-election.
The morning duties will include those of an Out-patient Medical Registrar. The afternoons will be devoted to work in a section of the Pathological Department.
Candidates must be unmarried, possess a legal qualification to practise, and have held a responsible resident appointment at a General Hospital.
Applications must be received by NOON on Monday, the 20th February, 1939, and candidates must be prepared to attend for interview by the Joint Committee at 4.45 P.M. on Wednesday, 1st March, 1939.
Further particulars and forms of application are obtainable from the undersigned.
HERBERT F. RUTHERFORD, Secretary.
January, 1939.

The Prince of Wales's General Hospital, London, N.15.

(238 Beds.)

The following Resident Posts will be vacant on March 15th next:—
(*a*) JUNIOR HOUSE PHYSICIAN.
(*b*) Two JUNIOR HOUSE SURGEONS.
Salary at the rate of £90 per annum, board, residence, and laundry.
Appointments held for six months, but holders are eligible for a further term as Senior.
Candidates (Male and unmarried) must be fully qualified and registered, and applications (on the prescribed form) together with copies of three recent testimonials, should be sent to the undersigned on or before March 1st, 1939.
J. C. BURDETT, Director and House Governor.

Woolwich and District War Memorial HOSPITAL, Shooters Hill, London, S.E.18.

General Hospital. 112 Beds.

The Board of Management invites applications from suitably qualified Male candidates for the undermentioned appointments:
(*a*) HONORARY ASSISTANT SURGEON.
(*b*) HONORARY ASSISTANT OBSTETRIC SURGEON.
The Honorary Assistant Surgeon must be a Fellow of the Royal College of Surgeons (England), and the Honorary Assistant Obstetric Surgeon, a Fellow of the Royal College of Surgeons (England) and/or a Member of the Royal College of Obstetricians and Gynæcologists.
(*c*) HOUSE SURGEON.—This appointment will be for six months with effect from March 6th, 1939. An honorarium at the rate of £100 per annum will be paid, plus board, residence, and laundry. In addition to his surgical duties, the House Surgeon will have the care of a Maternity Unit of eight beds. Applications for this post, which is recognised by the Royal College of Surgeons for the six months' training required of candidates before admission to the Final Examination for the Fellowship, should be made on the prescribed form, obtainable from the undersigned.
The closing date for the receipt of applications for all three appointments is Friday, February 24th, 1939. Short-listed candidates will be invited to meet the Appointments Committee on Friday, March 3rd, 1939.
R. S. G. HUTCHINGS, Secretary.

Miller General Hospital, Greenwich-road, S.E.10.

Applications are invited for the following posts—
HOUSE PHYSICIAN. Male; unmarried. Salary £100 per annum.
HOUSE SURGEON. Male; unmarried. Salary £100 per annum.
Board, residence and laundry are provided.
The appointments are for six months from 1st April, 1939.
There are six Resident Officers.
Application forms can be obtained from the Secretary, and must be returned not later than 23rd February, 1939.
31st January, 1939.

East Ham Memorial Hospital, Shrewsbury-road, E.7.

(104 Beds.)

Applications are invited for the post of HOUSE PHYSICIAN (Male). The appointment is for six months commencing 1st March. Salary at the rate of £150 per annum, with board, residence, and laundry.
Applications, stating age, nationality, experience, and full particulars, together with copies of three testimonials, should reach the undersigned by 16th February, 1939.
REGINALD PERRY, Secretary.

British Postgraduate Medical School.

Applications are invited from fully qualified Medical Practitioners for the posts of CASUALTY OFFICER, one to begin duty on 1st March, 1939, and one to begin duty on 1st April, 1939.
The appointments are for six months each and are non-resident. Salary in each case is at the rate of £150 per annum and the posts are specially suited to candidates studying for higher qualifications.
Applications, accompanied by copies of two testimonials, should be addressed to the Dean, British Postgraduate Medical School, Ducane-road, Shepherd's Bush, London, W.12, to arrive not later than the first post on Tuesday, 14th February, 1939.

Hospital for Consumption and Diseases OF THE CHEST, Brompton, S.W.3.

The Committee of Management invite applications for the post of MEDICAL REGISTRAR (half-time).
Salary £150 per annum.
Candidates must be Graduates in Medicine of a recognised University. Particulars as to duties, &c., may be obtained from the Secretary.
Applications, with copies of testimonials, must reach the undersigned not later than Monday, 6th March, 1939.
F. G. ROUVRAY, Secretary.
Brompton, February, 1939.

UNIVERSITY OF LONDON

OPHTHALMIC HOSPITAL MEDICAL SCHOOL

ROYAL LONDON OPHTHALMIC HOSPITAL

MOORFIELDS EYE HOSPITAL, CITY ROAD, E.C.1

NEW TERM BEGINS ON MARCH 1st.

The SLIT LAMP COURSE will begin on March 3rd. Fee £5 5s.

The complete curriculum is specially adapted to meet the requirements of those reading for the D.O.M.S. and similar diplomas in Ophthalmology.

For further particulars apply to the Secretary to the Medical School at the Royal London Ophthalmic Hospital, City Road, E.C.1, or to the Dean, CHARLES GOULDEN, O.B.E., M.D., M.Ch., F.R.C.S.

Royal College of Surgeons of England.

ELECTION TO COURT OF EXAMINERS.

Notice is hereby given that the Council, on May 11th next, will elect One Member of the Court of Examiners in the vacancy occasioned by the retirement of Prof. C. A. Pannett, who is not eligible for re-election.

Fellows of the College desirous of becoming candidates for the office must make application, in writing, to the Secretary on or before Monday, February 27th.

KENNEDY CASSELS, Secretary.

11th February, 1939.

TANCRED'S STUDENTSHIPS

About Whitsuntide next the Governors and Trustees propose to elect One Student in Divinity at Christ's College, Cambridge, One Student in Physic at Gonville and Caius College, Cambridge, and One Student in Law at Lincoln's Inn.

Candidates must have been born in England, Scotland, or Wales and be members of the Church of England and unmarried.

An examination will be held at Gonville and Caius College on Friday, 14th April, for Divinity and Physic Candidates, who must be within the ages of seventeen and twenty years. There will be no examination for the Law Candidates who must be within the ages of nineteen and twenty-three years.

The annual stipend of each student is £100.

The last day for sending in Petitions is March 14th.

Applications, stating *kind* of studentship and mentioning this paper should be made to the Clerk, Mr. CHOLMELEY, 28, Lincoln's Inn-fields, London, W.C.2.

LONDON HOSPITAL MEDICAL COLLEGE

PRIMARY F.R.C.S. COURSE

The next Course for the Primary F.R.C.S. Examination will begin on Monday, March 6th, 1939.

The Timetable will be as follows:—

ANATOMY.

Professor J. D. BOYD, Dr. W. F. HARPER, the Reader in Anatomy and Mr. E. C. BUTLER (Hon. Assistant Surgeon to the Hospital) will give a course of Lectures daily at 12 NOON (except Saturdays). Of these lectures Professor Boyd will give 20, Dr. Harper 20, and Mr. Butler 10. In addition there will be at least three demonstrations a week in the Dissecting Room at times to be arranged given by Professor Boyd, Dr. Harper and Mr. F. Stansfield, the Demonstrator of Anatomy.

PHYSIOLOGY.

Professor D. T. HARRIS will give two Special Lectures a week to gentlemen attending the Course on Mondays and Wednesdays at 9.40 A.M. These lectures, like other lectures of the Course, are confined to students working for the Primary Fellowship Examination.

Dr. CHARLES REID, the Reader in Physiology, will give a lecture-demonstration daily at 2 P.M. (except Saturdays).

Members of the Course are also advised to attend the systematic lectures given by Professor HARRIS to Second M.B. candidates in their final year on Tuesdays, Thursdays and Fridays at 9.40 A.M.

There will be no lectures between April 7th and 15th, inclusive.

The Fee for the Course is 15 guineas.

A. E. CLARK-KENNEDY, Dean.

Turner-street, London, E.1.

London Hospital, E.1.

There is a vacancy for the post of ASSISTANT SURGEON. Candidates must be Fellows of the Royal College of Surgeons of England.

Applications should be sent to the House Governor from whom further particulars may be obtained, and should arrive not later than on Saturday, March 11th.

ARTHUR G. ELLIOTT, House Governor.

London Hospital, E.1.

There is a vacancy for the appointment of FIRST ASSISTANT to the SKIN AND LIGHT THERAPY DEPARTMENTS. Salary £150 per annum.

Applications should be sent to the undersigned by Saturday, March 11th.

H. L. MILSOM, Secretary.

Saint Mary's Hospital for Women

AND CHILDREN, PLAISTOW.

Applications are invited for an HONORARY OPHTHALMIC SURGEON. Candidates should be Fellows of a Royal College of Surgeons also have held an appointment at an Ophthalmic Hospital or in the Ophthalmic Department of a General Hospital after graduation, or undertake to obtain such qualifications within twelve months of appointment.

Applications, with copies of three testimonials, to be sent to the undersigned as soon as possible.

A. ERNEST WILKES, Secretary.

Saint Mary's Hospital for Women

AND CHILDREN, PLAISTOW.

HONORARY DERMATOLOGIST.

Applications are invited for an Honorary Physician in charge of the Skin Department. Attendance on Wednesday afternoon each week. Applicants should be graduates of a University and Fellows or Members of the Royal College of Physicians.

Applications, with copies of testimonials, should be sent to the undersigned as soon as possible.

A. ERNEST WILKES, Secretary.

Borough of St. Marylebone.

APPOINTMENT OF MEDICAL OFFICER OF HEALTH.

The St. Marylebone Borough Council invite applications from duly registered Medical Practitioners, not exceeding forty-five years of age, possessing a diploma in Sanitary Science, Public Health or State Medicine, for the appointment of Medical Officer of Health of the Metropolitan Borough of St. Marylebone at the inclusive salary of £1350 per annum, rising by biennial increments of £100 to a maximum at the rate of £1750 per annum.

The appointment will be subject to (i) the approval of the Minister of Health, (ii) the relative Statutory provisions, (iii) the terms and conditions laid down by the Council, and (iv) medical examination. The official form of application, may be obtained from "The Town Clerk, Town Hall, St. Marylebone, W.1," to whom applications, endorsed "Medical Officer of Health," must be delivered in sealed envelopes not later than Wednesday, the 8th March, 1939.

The Council's Bye-laws provide that canvassing shall disqualify an applicant.

The Infants Hospital, Vincent Square,

Westminster.

Applications are invited for the post of HOUSE PHYSICIAN (either sex). Salary at the rate of £100 per annum, with board, residence, and laundry. (The hospital is recognised for the D.C.H.)

The appointment is for six months from April 1st.

Applications, with copies of testimonials, to be forwarded to the undersigned not later than February 28th.

ARNOLD TUNSTALL, Secretary.

University of London.—The Senate

invite applications for the UNIVERSITY CHAIR OF MEDICINE tenable at St. Mary's Hospital Medical School. Salary £2000 a year. Applications (twelve copies) must be received not later than first post on 22nd March, 1939, by the Academic Registrar, University of London: Senate House, W.C.1, from whom further particulars should be obtained.

ROYAL NAVAL MEDICAL SERVICE

Vacancies exist for MEDICAL OFFICERS in the Royal Navy, and applications are invited for entry in March, 1939.

Candidates below the age of 28 years are preferred, and they must be registered under the Medical Acts. No examination in professional subjects will be held but candidates will be required to attend for interview by a Selection Board.

Selected candidates will be entered for Service for a period of three years, which if desired is usually extended to five years at the discretion of the Admiralty.

Officers who leave the Service at the end of the initial period of three years will be eligible for a gratuity of £400, and those who leave at the end of five years for a gratuity of £1,000.

At the end of five years' Short Service permanent commissions will be given to selected officers who wish to make the Naval Medical Service their permanent career. Officers transferred to the permanent list will receive a gratuity of £1,000 (less Income Tax).

Full opportunities exist for transfer to the permanent list. Marriage Allowance is paid under the same conditions as for other Naval Officers.

Opportunities are available for officers on the permanent list for post-graduate study, to specialise, to take higher examinations and to obtain further qualifications.

Copies of the regulations for entry and conditions of Service, including rates of pay, allowances and retired pay, may be obtained from the Medical Director-General of the Navy, Admiralty, S.W.1, and from the Deans of all Medical Schools.

Applications for entry from intending candidates must be received not later than 28th February, 1939.

London Jewish Hospital,

Stepney Green, E.1.
General Hospital. 109 Beds.

Applications are invited for the post of SURGICAL REGISTRAR. Honorarium at the rate of sixty guineas per annum.

Particulars for the appointment can be obtained from the Secretary, to whom candidates must send ten copies of their applications, with copies of three recent testimonials, not later than Friday, 17th February.

London Jewish Hospital,

Stepney Green, E.1.

CLINICAL ASSISTANT (Honorary) required in the Ophthalmic Out-patient Department. Attendance weekly on Fridays at 2 P.M.

Apply Secretary, London Jewish Hospital, Stepney Green, E.1.

ROYAL ARMY MEDICAL CORPS

SUPPLEMENTARY RESERVE OF OFFICERS

Vacancies exist for the appointment of registered Medical Practitioners to the above reserve.

Appointment is in the rank of Lieutenant with promotion to Captain after one year's service.

Members of Category "B" are eligible for an outfit allowance and full pay of their rank is issued during annual training (14 days), which is arranged at times to suit the individual officer.

Full particulars, together with forms of application, can be obtained from the Assistant Director-General, Army Medical Services, The War Office (A.M.D.1), Whitehall, London, S.W.1.

London County Council.

Applications invited for postitions of Temporary Part-time DENTAL ANÆSTHETIST in connexion with Council's scheme for dental treatment of school-children. Salary at rate of £75 a year for each session (2½ hours) a week during school terms. Number of sessions varies at different centres.

Forms of application (stamped, addressed foolscap envelope necessary) from Medical Officer of Health (S.D.5), County Hall, Westminster Bridge, S.E.1, returnable by 25th February.

Canvassing disqualifies.

London County Council.

Applications invited from Medical Practitioners of at least one year's standing for undermentioned positions. Candidates must have held resident appointment in general hospital for at least six months. Married quarters not available.

ASSISTANT MEDICAL OFFICERS (Class I).—Salary £350–£25–£425, with board, lodging, and washing.

(*a*) DULWICH HOSPITAL, East Dulwich-grove, S.E.22.—Experience in obstetrics and gynæcology essential.

(*b*) ST. ANDREW'S HOSPITAL, Devons-road, Bow, E.3.—Medical duties.

ASSISTANT MEDICAL OFFICERS (Class II).—Salary £250, with board, lodging, and washing. Appointment for one year only in first instance (renewable for second year under certain conditions).

*(*c*) ARCHWAY HOSPITAL, Archway-road, Highgate, N.19.—General medical duties.

(*d*) HAMMERSMITH HOSPITAL, Ducane-road, Shepherd's Bush, W.12.—General medical duties, experience in children's diseases desirable.

(*e*) ST. ANDREW'S HOSPITAL, Devons-road, Bow, E.3.—General duties and casualty officer.

(*f*) ST. GILES' HOSPITAL, St. Giles'-road, Camberwell, S.E.5.—Duties, midwifery, gynæcology, infants' wards.

(*g*) ST. MARY, ISLINGTON, HOSPITAL, Highgate Hill, N.19.—Medical duties, experience in anæsthetics desirable.

(*h*) ST. PANCRAS HOSPITAL, 4, St. Pancras-way, N.W.1.—General duties, experience in anæsthetics desirable.

(*i*) ST. STEPHEN'S HOSPITAL, 369, Fulham-road, S.W.10.—Duties mainly medical, experience in anæsthetics desirable.

* No accommodation for woman.

Application forms obtainable (stamped, addressed foolscap envelope necessary) from Medical Officer of Health, Staff Division 2, County Hall, S.E.1, returnable by 27th February.

Canvassing disqualifies.

Connaught Hospital, E.17.

FOR WALTHAMSTOW, WANSTEAD, LEYTON, AND CHINGFORD.

Applications are invited for the appointment of HONORARY PHYSICIAN. Candidates must be Members or Fellows of the Royal College of Physicians.

Applications, together with copies of three testimonials, should be received by 3rd March.

The Hospital is one of 118 Beds, including private wards.

R. HALTON HARRISON, General Secretary.

University of London.—The Senate

invite applications for the UNIVERSITY CHAIR OF DENTAL SURGERY AND PATHOLOGY tenable at the Royal Dental Hospital of London School of Dental Surgery. Initial salary £1500 a year, rising in three years' time to £1600. Candidates must be registered Dental Practitioners and preference will be given to candidates possessing additional qualifications.

Applications (twelve copies) must be received not later than first post on 23rd March, 1939, by the Academic Registrar, University of London: Senate House, W.C.1, from whom further particulars should be obtained.

Victoria Hospital for Children,

Tite-street, Chelsea, S.W.3.

The Committee of Management are prepared to receive applications for the following posts:—

(*a*) SURGEON TO OUT-PATIENTS (the Acting Assistant Surgeon is a candidate).

(*b*) HONORARY SURGICAL REGISTRAR. (Appointment for one year—renewable for a second year.)

Candidates are expected to call on members of the Honorary Medical Staff and should send in their applications to the Secretary not later than Saturday, February 25th, 1939.

D. ST. JOHN BAMFORD, Secretary.

Royal Masonic Hospital.

Ravenscourt-park, W.6.

Two RESIDENT SURGICAL OFFICERS (Male) are required. Duties to commence 1st April, 1939. Salary at the rate of £250 per annum, with board, residence and laundry. The appointments are for six months. Candidates must be registered, and must have held resident appointments at a general hospital. The Institution (145 Beds at present, but to be increased) is primarily for paying patients of both sexes of moderate means usually unable to afford ordinary nursing-home treatment, &c.

Applications, stating full particulars, to be sent on or before Monday, 6th March, 1939, to the Honorary Secretaries, from whom further information may be obtained.

Charing Cross Hospital, W.C.2.

SURGICAL REGISTRAR.

The Council invite applications from candidates who must be registered Medical Practitioners (Male) for the post of Second Surgical Registrar. Honorarium £150 per annum.

A copy of the regulations can be obtained from the undersigned to whom applications, together with copies of three testimonials, must be submitted not later than Saturday, 25th February, 1939.

GEO. J. JONES, Secretary.

Charing Cross Hospital, London, W.C.2.

Queen Mary's Hospital for the East

END, Stratford, London, E.15.

Applications are invited from fully qualified and registered Medical Men (only) for the following posts:—

	Salary	Period
RESIDENT MEDICAL OFFICER	£150	6 months
HOUSE PHYSICIAN	£120	6 months
HOUSE SURGEON	£120	6 months
CASUALTY OFFICER	£150	6 months
OBSTETRIC HOUSE SURGEON		6 months

In addition to his salary the Resident Medical Officer receives certain sums paid by the National Health Insurance.

The appointments will date from the 1st of April, 1939, and will be for six months except in the case of the Obstetric House Surgeon. This appointment will be for three months as Junior at £110 per annum and three months as Senior at £130 per annum, six months in all.

The Hospital contains 219 beds, including 50 for Maternity.

Candidates, who must be single, should send applications, with copies of testimonials, to the undersigned, not later than Thursday the 23rd of February, 1939.

Major RAPHAEL JACKSON, Secretary.

The Radium Institute and Mount

VERNON HOSPITAL,
1, Riding House-street, London, W.1.

Applications are invited for the post of HOUSE SURGEON at the Mount Vernon Hospital, Northwood. The appointment will be made for six months at a salary at the rate of £150 per annum, with board and residence, commencing 1st April next.

Applications should be sent by the 28th February to the undersigned at the above address.

T. A. GARNER, Secretary.

Hampstead Heath Babies' Club.

INFANT WELFARE CENTRE FOR SUBSCRIBERS.

A third clinic will shortly be commenced at this centre, and applications are invited from PRACTITIONERS, Male or Female, with the necessary experience in Child Welfare.

Salary at the rate of 1½ guineas per session of 2 hours.

Applications, with details of experience, and copies of testimonials, should be sent to the Secretary, 99, Hampstead Way, London, N.W.11, not later than Feb. 24th, 1939.

Manchester Royal Infirmary.

CHIEF ASSISTANT TO THE NEURO-SURGICAL DEPARTMENT.
(Non-resident.)

The Board of Management invite applications for the above appointment.

Candidates should be Fellows of the Royal College of Surgeons of England.

The duties require attendance at the Infirmary on seven half days per week. The appointment is for one year, renewable for a further period, subject to the provisions of the Bye-laws as to notice. Salary £350 per annum.

Further information may be obtained from the undersigned to whom applicants must send fifteen copies of their application and testimonials by Wednesday, 22nd February, 1939.

By Order,

F. J. CABLE, General Superintendent and Secretary.

6th February, 1939.

City of Stoke-on-Trent.

SENIOR ASSISTANT MATERNITY AND CHILD WELFARE OFFICER.

Applications are invited from fully qualified Medical Practitioners (Women) not over forty-five years of age, for the position of Senior Assistant Medical Officer for Maternity and Child Welfare. The possession of a D.P.H. will be considered an additional qualification. Preference will be given to applicants who have had a six months' resident appointment in a childrens' hospital and in a maternity hospital. The duties include attendance at Maternity and Child Welfare Centres, and such other duties as may be prescribed. The salary to be paid is £600, rising by £25 annually to £750 per annum.

The appointment is subject to the Superannuation Act, 1937.

Applications endorsed "Assistant M. and C.W. Officer," together with not more than three recent testimonials, to be submitted not later than February 27th, 1939, to: E. B. SHARPLEY, Town Clerk, Town Hall, Stoke-on-Trent.

February 7th, 1939.

UNIVERSITY OF LEEDS

SCHOOL OF MEDICINE.

The Council of the University invites applications for the post of READER IN MEDICINE. Salary £600 a year.

Membership of the Royal College of Physicians is desirable.

Further particulars of the appointment may be obtained from the Registrar, The University, Leeds, 2, who will receive applications for the Readership on or before the 22nd February.

City of Plymouth.

ASSISTANT MEDICAL OFFICER OF HEALTH.

Applications are invited from duly qualified Medical Practitioners for the appointment of an additional Assistant Medical Officer of Health as from the 1st April, 1939, at a salary of £500, rising by £25 annually, to £700 per annum, for Maternity and Child Welfare and School Medical duties.

The appointment will be whole time and the person appointed will be required to refund to the Council any fees received in respect of any work, where such work is undertaken by virtue of the office or is in consequence of being a Medical Officer of the Corporation.

The successful applicant will be required to act under the general supervision of the Medical Officer of Health and to carry out any duties delegated by him from time to time.

The post will be subject to the provisions of the Local Government Superannuation Act, and will be terminable by two months' notice on either side.

Forms of application may be obtained from the undersigned and should be returned, together with copies of not more than three recent testimonials, on or before Monday, 27th February, 1939.

T. PEIRSON, Medical Officer of Health,
City and Port of Plymouth.

Town Hall, Stonehouse, Plymouth.

Walsall General Hospital.

The Committee are prepared to receive applications from Men for the post of RESIDENT SURGICAL OFFICER. Salary £300 per annum. Candidates with Fellowship, or Primary Fellowship preferred. The Hospital will shortly contain 175 beds and the Surgical experience is excellent.

Applications, stating age, with copies of three recent testimonials, to be sent at once to the undersigned.

WALTER FRANCOMBE, House Governor.

4th February, 1939.

Oldham Royal Infirmary.

(183 Beds. 4 House Surgeons.)

A HOUSE PHYSICIAN and SURGEON required for SPECIAL DEPARTMENTS for a period of six months.

Salary at the rate of £175 per annum, with board, residence and laundry.

Applications, stating age, experience, and qualifications, together with copies of three testimonials must be forwarded to the undersigned not later than the 18th February, 1939.

THOS. H. ODDY, Secretary-Accountant.

County Borough of Oldham.

ASSISTANT MEDICAL OFFICER OF HEALTH and RESIDENT MEDICAL OFFICER at the Infectious Diseases Hospital.

Applications are invited from unmarried registered Medical Practitioners, not exceeding forty-five years of age, for the above appointment. The appointment affords opportunities for gaining experience in all branches of the Public Health Service, including Tuberculosis, and the possession of a D.P.H. will be an advantage.

The salary is at the rate of £350 per annum, rising, subject to satisfactory service by annual increments of £25 to £550, together with board, residence, and laundry, which are valued at £150 per annum. In accordance with the Grading Scheme of the Corporation the first increment will be payable on the 1st April next following appointment, provided a period of six months has elapsed since commencement of duties, otherwise the increment will be paid on the subsequent 1st April. All fees of every kind whatsoever must be handed over to the Corporation.

The person appointed will be required to devote his/her whole time to the office, which will also include duties in connexion with the work of the Public Health Department as assigned to him/her by the Medical Officer of Health.

The appointment which may be terminated by two months notice on either side, is subject to the provisions of the Local Government and Other Officers' Superannuation Act, 1922, and the person appointed will be required to pass a medical examination.

Canvassing or submitting testimonials from members of the Council or of any Committee appointed by the Council will be a disqualification.

Forms of application and conditions of appointment may be obtained from the Medical Officer of Health, Town Hall, Oldham, and must be returned to him (marked "Resident Medical Officer") together with copies of three recent testimonials, not later than the first post on Friday, 24th February, 1939.

THOMAS ALKER, Town Clerk.

Town Hall, Oldham, 1st February, 1939.

County Borough of Halifax.

ASSISTANT MEDICAL OFFICER OF HEALTH—MATERNITY AND CHILD WELFARE (Female).

Applications are invited from duly qualified and registered Medical Practitioners for the post of whole-time Assistant Medical Officer of Health—Maternity and Child Welfare (Female), experienced in Ante-natal work, Midwifery and Children's Diseases, to hold consultations at the Ante-natal and Maternity and Child Welfare Centres in the County Borough of Halifax and to perform such other duties as appertain to the office.

The person appointed will be a member of the Staff of the Medical Officer of Health and will work under his control and direction. She will be required to devote her whole time to the duties of her office and not to engage in private practice of any description.

The salary offered is £500 per annum, rising by annual increments of £25 to £700 and the post will be subject to the provisions of the Local Government Superannuation Act, 1937.

Applications must be made on the prescribed form, to be obtained from the undersigned, and delivered, accompanied by copies of three recent testimonials, not later than first post on Monday, 20th February, 1939, endorsed "Assistant M.O.H.—Maternity and Child Welfare" and addressed to the Town Clerk, Town Hall, Halifax.

Canvassing, either directly or indirectly, will be a disqualification.

PERCY SAUNDERS, Town Clerk.

Town Hall, Halifax, 31st January, 1939.

County Borough of St. Helens.

ASSISTANT MEDICAL OFFICER OF HEALTH.

Applications are invited for the post of Assistant Medical Officer of Health (Male).

The duties will be mainly in connexion with the School Medical Service and Maternity and Child Welfare, but frequently include Infectious Diseases, Tuberculosis and General Sanitary work so that the post gives considerable general experience.

Candidates should have special experience in the diseases of children, and the possession of a Diploma in Public Health is very desirable.

The salary will be at the rate of £500 per annum, plus travelling expenses, rising by annual increments of £25 to a maximum of £700 per annum, but in the case of a candidate now in the service of another authority on a raising scale, recognition may be given to past service with such authority in fixing the commencing salary.

The appointment is subject to the provisions of the Local Government and Other Officers' Superannuation Act, 1922, and, in due course, the Local Government Superannuation Act, 1937, and to the successful candidate passing the necessary medical examination.

Forms of application may be obtained from the Medical Officer of Health, Town Hall, St. Helens, and completed applications accompanied by copies of not more than three recent testimonials, should reach him not later than the 20th February, 1939.

Canvassing members of the Council or Committees of the Corporation will be a disqualification.

FRANK HAUXWELL, Medical Officer of Health.

Town Hall, St. Helens, 28th January, 1939.

Middlesbrough Education Committee.

APPOINTMENT OF ASSISTANT SCHOOL MEDICAL OFFICER.

Applications are invited from duly qualified Men for a position as ASSISTANT SCHOOL MEDICAL OFFICER in connexion with the medical inspection and treatment of school-children, and such other duties as may be required by the Education Committee. The person appointed will be generally responsible to the School Medical Officer.

Commencing salary £500 per annum (provided the successful candidate has had not less than three years' postgraduate experience) rising by annual increments of £25 to £700 per annum. The Committee will take into account previous experience as an Assistant School Medical Officer in determining the amount of the commencing salary. The successful candidate will be required to devote his whole time to the duties of the office. The appointment will be subject to the provisions of the Local Government and Other Officers' Superannuation Act, 1922, and the successful candidate will be required to pass satisfactorily a medical examination. The appointment will be terminable by two calendar months' notice on either side.

Forms of application may be obtained on application to the Director of Education, Education Offices, Woodlands-road, Middlesbrough, to whom completed forms should be returned not later than Saturday, 25th February, 1939.

Canvassing in any form will disqualify.

PRESTON KITCHEN, Town Clerk.

Town Clerk's Office, Municipal Buildings, Middlesbrough, 30th January, 1939.

University of Oxford.

NUFFIELD COMMITTEE FOR THE ADVANCEMENT OF MEDICINE.

The Committee invites applications for the post of GRADUATE ASSISTANT in the Department of Pathology at the Radcliffe Infirmary. Candidates must be medically qualified. The appointment is for one year in the first instance with the possibility of renewal, and the initial salary will be not less than £251 nor more than £300, according to qualifications and experience. The person appointed will take part in the routine morbid anatomical work of the department and will have opportunities for original work.

The appointment will date from 1st April, 1939, or such other near date as may be arranged.

Applications must reach Dr. ROBB-SMITH, Radcliffe Infirmary, not later than the first post on Saturday, 25th February, 1939, and must be accompanied by a full statement of qualifications and the names of not more than three referees. Testimonials are not required.

Inquiries about the post should also be made to Dr. Robb-Smith.

Dorset County Hospital, Dorchester.

APPOINTMENT OF HOUSE SURGEON

The Committee of Management are open to receive applications for the position of House Surgeon (Male only), to take up his duties early in March, 1939.

Every candidate must be unmarried and possess a registered qualification to practise medicine and surgery from some recognised body in Great Britain or Ireland. Salary £150 per annum, with board and lodging. The appointment is for a period of six months.

All applications, accompanied by copies of three recent testimonials, should be sent to the Secretary, the Dorset County Hospital, by 15th February, 1939.

Candidates must be of British birth and nationality.

Hull City Mental Hospital, Willerby, Nr. Hull.

Applications are invited for the post of SECOND ASSISTANT MALE MEDICAL OFFICER (Married).

The commencing salary is £500 per annum, rising by annual increments of £25 to a maximum of £600 per annum, with an additional £50 for the possession of the D.P.M., together with emoluments comprising furnished house, coal, light, laundry and vegetable produce for his household (valued for superannuation purposes at £150 per annum), also permission to buy provisions out of store at contract prices.

The appointment will be subject to the provisions of the Asylums Officers' Superannuation Act, 1909.

Forms of application may be obtained from the Medical Superintendent, and should be returned to him, together with not more than three recent testimonials, not later than the 20th February, 1939.

St. Anne's Hospital, Altrincham, CHESHIRE.

Wanted, a RESIDENT SURGICAL OFFICER (Male) for the above Hospital (50 Beds). Must be registered. Salary £200 per annum, with board, apartments, &c. This Hospital is the Ear, Nose, and Throat Department of the Manchester Hospital for Consumption and Diseases of the Ear, Nose, Throat, and Chest, and duties include attendance on two mornings a week at the Out-patient Department, Manchester.

Applications, with copies of testimonials, to be sent not later than February 18th to W. HUNT, Secretary, 45, Hardman-street, Deansgate, Manchester, 3.

Leicester Royal Infirmary.

(500 Beds.)

Staff: 4 H.S., 3 H.P., 2 C.O., 3 Res. Anæs., 1 Res. Radiologist.

VACANCIES FOR APRIL 1st, 1939.

2 HOUSE PHYSICIANS.

Salary £125 per annum. Applicants must have held a Resident Hospital post or had similar experience of Hospital work.

3 HOUSE SURGEONS.

Salary £125 per annum. Applicants must have held a resident Hospital post or had similar experience of Hospital work.

Unsuccessful candidates will be considered for Senior Casualty Officer, if they so intimate.

2 CASUALTY OFFICERS.

Senior Casualty Officer, Fellowship standard. Salary £125 per annum.

Junior Casualty Officer. Salary £100 per annum.

2 RESIDENT ANÆSTHETISTS

Salary at the rate of £150 per annum for first six months. £200 per annum for second six months. £225 per annum for third six months. £250 per annum for fourth six months.

Application forms, obtainable from the House Governor and Secretary, should be returned not later than 20th February.

Appointments for six months will be made on the 1st March.

February 6th, 1939.

The King Edward VII Memorial,

ELIOT HOSPITAL, HAYWARDS HEATH.

(Incorporated.)

Applications are invited for the appointment of HONORARY SURGEON to the above Hospital.

Applicants should possess the Degree of Master of Surgery or the Diploma of the Royal College of Surgeons of England.

Particulars of the duties of the post may be obtained from he undersigned, to whom applications should be sent.

CHARLES HALES, Hon. Secretary, The King Edward VII Memorial, Eliot Hospital, Haywards Heath. (Incorporated.)

Chorley and District Hospital, Chorley,

LANCASHIRE.

(Voluntary General Hospital with 75 Beds.)

HOUSE SURGEON.

Applications are invited for the post of House Surgeon to commence duties early in May, 1939.

The appointment will be for six months, but the appointed candidate will be eligible for reappointment.

The salary is £150 per annum, with board, residence, and laundry.

Applications, with copies of three recent testimonials, to be sent to the undersigned not later than Saturday, 25th February, 1939.

C. H. SPENCE, Secretary-Superintendent.

Norfolk and Norwich Hospital,

NORWICH.

(440 Beds.)

Applications are invited for the post of HOUSE SURGEON. Salary £120 per annum, with board, residence, and laundry. Candidates (Male) must be unmarried and must possess registered qualifications.

Applications, stating age, nationality, &c., together with copies of testimonials, should be forwarded to the undersigned not later than first post on Tuesday, 14th February.

FRANK INCH, House Governor and Secretary.

4th February.

The Children's Hospital, Sheffield.

(157 Beds.)

Applications are invited for the post of HOUSE PHYSICIAN vacant 1st March, 1939.

The appointment is for six months. Salary £100 per annum with board, residence, and laundry. Candidates (Male and unmarried) who must possess registered qualifications, should forward applications stating age, nationality, &c., together with copies of three recent testimonials to the undersigned.

T. H. G. GARTLAND, Superintendent and Secretary.

Hounslow Hospital, Middlesex.

Applications are invited for the appointment of ANÆSTHETIST. An honorarium of £1 1s. per session is payable.

Applications, with copies of three recent testimonials, should be addressed to the Secretary not later than February 14th. Applicants will be furnished with a list of session times, &c.

The Cassel Hospital for Functional

NERVOUS DISORDERS, SWAYLANDS, PENSHURST, KENT.

LOCUM TENENS (Male) required for the above hospital for a period of six months from April 15th. Previous experience in the treatment of the psychoneuroses essential. Salary eight guineas a week, with board, residence, and laundry.

Applications to be sent in as soon as possible to the Medical Director enclosing testimonials.

City of Birmingham.

MENTAL DEFICIENCY ACT COMMITTEE.
MONYHULL COLONY.

RESIDENT LADY ASSISTANT MEDICAL OFFICER.

Applications are invited from single or widowed ladies who are duly qualified and registered Medical Practitioners for the position of Resident Assistant Medical Officer at the above institution.

The commencing salary will be £350 per annum, rising subject to satisfactory service by increments of £25 to £450 per annum, with full residential emoluments consisting of board, lodging, laundry, and attendance, valued for superannuation purposes at £200 per annum. An additional £50 per annum will be paid to a holder of a recognised postgraduate qualification in psychological medicine. A person who has held a resident house appointment will be regarded as having an additional qualification.

The candidate appointed will be required to pass a medical examination and will be placed on the permanent staff after a probationary period, when she will be required to contribute under the Asylums Officers' Superannuation Act, 1909, as modified by the Asylums and Certified Institutions (Officers' Pensions) Act, 1918. The appointment is subject to one month's notice on either side.

Applications, stating full particulars of qualifications, experience, and appointments held, accompanied by copies of three recent testimonials, must be addressed to the undersigned so as to be received not later than 28th February, 1939, and should be endorsed "Appointment of Resident Lady Assistant Medical Officer, Monyhull Colony."

Canvassing either directly or indirectly will be a disqualification.

F. H. C. WILTSHIRE, Town Clerk.

Town Clerk's Office, Council House, Birmingham, 1.

City of Nottingham.

PHYSICIAN (TEMPORARY).

The Nottingham City Council requires immediately the temporary services of a Physician to undertake the examination of a large number of employees who will shortly be eligible for inclusion in a superannuation scheme.

The person appointed will be required to give his whole time to the duties and it is expected that the appointment will be for about three months. The work will be carried out in Corporation premises.

The remuneration will be £15 per week.

Applicants must produce evidence of skill and experience as physicians; recently qualified persons should not apply.

Forms of application may be obtained from me and they should be returned in an envelope endorsed "Temporary Physician" so as to reach me not later than Tuesday, the 28th February, 1939.

(Signed) J. E. RICHARDS, Town Clerk.

Guildhall, Nottingham.

Middlesex County Council.

MIDDLESEX COLONY, SHENLEY.

THIRD ASSISTANT MEDICAL OFFICER required at the above Institution. Applicants should be fully qualified and registered. Single, and under thirty-five years of age. Salary £365 per annum, rising by six consecutive annual increments of £20 each to a maximum of £485 per annum, with emoluments valued at £150 per annum.

Applications, together with copies of three recent testimonials, to be forwarded to the Medical Superintendent, Middlesex Colony, Harper-lane, Shenley, near St. Albans.

Northampton General Hospital.

(381 Beds.)

There will be vacancies for:—

(a) A CASUALTY OFFICER on the 1st March.
(b) A HOUSE SURGEON on the 11th March.
(c) A HOUSE PHYSICIAN on the 17th March.

Salaries will be at the rate of £150 per annum, with board, residence and laundry. Candidates, who must be duly qualified and registered, must be males, and of British Nationality. The successful candidates will be elected for the period ending 30th September, and will be eligible for re-election for a further period of six months.

Applications, stating age, qualifications, &c., with copies of three testimonials, must reach the undersigned not later than first post on Wednesday, 15th February, 1939.

GORDON S. STURTRIDGE, M.B., B.S., Superintendent.

30th January, 1939.

Ancoats Hospital, Manchester, 4.

HOUSE SURGEONS (two required), Lady or Gentleman. One for the EAR, NOSE, AND THROAT DEPARTMENT and to act as House Physician to one of the Honorary Physicians, and one for the ORTHOPÆDIC DEPARTMENT.

Both these appointments are for six months as from March 1st. Salary £100 per annum, with board, residence, washing, &c.

Applications, stating age, qualifications, experience (if any) and full particulars to be forwarded to the undersigned on or before 15th February, together with copies of three recent testimonials.

By Order of the Board.

HERBERT J. DAFFORNE, General Supt. and Secretary.

County Borough of Brighton.

SENIOR RESIDENT MEDICAL OFFICER AT THE BOROUGH INFECTIOUS DISEASE HOSPITAL AND SANATORIUM.

The Council invite applications for the above appointment from duly qualified unmarried Male Medical Practitioners under forty years of age.

The salary will be at the rate of £450 per annum, rising by annual increments of £25 to £500, together with board and lodging at the Borough Sanatorium. Preference will be given to candidates entering the Public Health Service.

Forms of application and particulars of the duties to be performed, and of the conditions upon which the appointment will be made, may be obtained from the undersigned.

The post is designated under the Local Government and Other Officers' Superannuation Act, 1922, and the successful candidate will be required to pass a medical examination before being appointed to the position.

Applications (with copies of three recent testimonials enclosed), endorsed "Appointment of Senior Resident Medical Officer" must be delivered at my office before 10 A.M. on Monday, 27th February, 1939.

Canvassing members of the Council, either directly or indirectly, will disqualify any applicant for the position.

DUNCAN FORBES, Medical Officer of Health.

Royal York Buildings, Brighton, 1. 1st February, 1939.

The Guest Hospital, Dudley.

(General Hospital—139 Beds.)

The Resident Staff consists of a Resident Surgical Officer and three House Surgeons.

HOUSE SURGEON (Male) required. Duties to commence March 2nd, 1939. Salary at the rate of £150 per annum, with furnished apartments, board, and laundry. Candidates must be fully qualified and registered.

Applications, stating age, qualifications, and experience, accompanied by copies of testimonials, to be sent to the undersigned.

H. RAYMOND HURST, House Governor and Secretary.

2nd February, 1939.

The Guest Hospital, Dudley.

(General Hospital. 139 Beds.)

The Resident Staff consists of a Resident Surgical Officer and three House Surgeons.

Applications are invited from registered Medical Practitioners for the post of RESIDENT SURGICAL OFFICER (Male). Duties to commence on or about March 1st, 1939. Salary at the rate of £250–£300 per annum, according to experience, with furnished apartments, board, and laundry. Candidates must have had experience in emergency surgery, and preference will be given to those holding the qualification of F.R.C.S. or M.S.

Applications, stating age, qualifications, and experience, accompanied by copies of testimonials, to be sent to the undersigned.

H. RAYMOND HURST, House Governor and Secretary.

2nd February, 1939.

County Borough of Newport.

PUBLIC ASSISTANCE COMMITTEE.

ASSISTANT RESIDENT MEDICAL OFFICER.

Applications are invited from unmarried registered Medical Practitioners (Male), not exceeding the maximum age of forty years, for the above appointment at the Committee's Hospital which is a recognised Training School for Nurses and provides treatment for acute medical and surgical cases, tuberculosis, obstetrics, and children's diseases, &c.

Preference will be given to candidates with surgical experience and experience in the administration of anæsthetics.

Salary £350 per annum, rising, subject to satisfactory service, by annual increments of £25 to £450 per annum, terminable by three months' notice on either side, together with the usual residential emoluments. No extra fees.

Applications, stating age, qualifications, and experience, accompanied by copies of three recent testimonials, to be sent to the Public Assistance Officer, Town Hall, Newport, Mon., not later than the 23rd February, 1939.

O. TREHARNE MORGAN, Town Clerk.

Town Hall, Newport, Mon., February, 1939.

York Dispensary.

Applications are invited for the post of RESIDENT MEDICAL OFFICER (Female) to commence duties as soon as possible. As there are two vacancies applications from doctors knowing each other would be welcomed.

The resident staff consists of two medical officers, whose duties are to visit and attend the sick poor in their own homes, and to assist the honorary staff.

Candidates must be duly qualified, registered, and unmarried. Experience in the administration of anæsthetics is essential

Salary £200 per annum, with board, lodging, and attendance, with an allowance towards car expenses and for laundry.

Applications, with testimonials, to be sent on or before February 18th to—

JOHN C. PETERS, Secretary.

4, New-street, York.

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The Prince of Wales's Hospital,

GREENBANK ROAD, PLYMOUTH.

(Formerly South Devon and East Cornwall Hospital.)

(264 Beds.)

There are vacancies for Two HOUSE SURGEONS at the above Hospital. Applications are invited for the same. Salary £120 per annum, with board, residence, and laundry.

Appointments are tenable for six months and are subject to renewal. Duties to commence 10th and 15th March.

The Hospital is officially recognised for the surgical practice required before admission to the Final Fellowship Examination of the Royal College of Surgeons of England.

Applicants must be registered under the Medical Acts. Applications, stating age and qualifications, with copies of three recent testimonials, to reach the undersigned by 24th February.

ARTHUR R. CASH, General Superintendent.

4th February, 1939.

The Prince of Wales's Hospital,

GREENBANK ROAD PLYMOUTH.

(Formerly South Devon and East Cornwall Hospital.)

(264 Beds.)

Applications are invited for the post of RESIDENT ANÆSTHETIST and HOUSE SURGEON to the Special Departments.

Salary £120 per annum, with board, residence, and laundry.

Appointment is tenable for six months and is subject to renewal. Duties to commence 10th March.

The Hospital is officially recognised for the surgical practice required before admission to the Royal Fellowship Examination of the Royal College of Surgeons of England.

Applicants must be registered under the Medical Acts. Applications, stating age and qualifications, with copies of three recent testimonials, to reach the undersigned not later than 24th February, 1939.

ARTHUR R. CASH, General Superintendent.

4th February, 1939.

City of Salford.

PUBLIC ASSISTANCE COMMITTEE.

MEDICAL OFFICER.

Applications are invited for the appointment of Medical Officer primarily for duty at the NEWCHURCH HOMES, CULCHETH, near WARRINGTON (267 Beds—approved for the reception of adult females under the Mental Deficiency Acts, 1913–1927) and for duty at HOPE MUNICIPAL HOSPITAL, Pendleton, Salford, from duly qualified and registered Male Medical Practitioners.

Candidates must have held for at least six months a medical or surgical residential appointment in a Mental and/or a General Hospital and preference will be given to those with Mental Deficiency Acts experience.

The person appointed (if he has not already done so) will be required to attend a course of instruction in the procedure under the Acts and the training of Mental Defectives.

The commencing salary will be £350 per annum, rising by annual increments of £25, subject to satisfactory service, to £450 per annum, together with emoluments consisting of board, laundry, attendance, and residence at Hope Hospital, Pendleton Salford.

The appointment will be subject to the provisions of the Local Government and Other Officers' Superannuation Act, 1922, after satisfactory medical examination.

Forms of application and further details of the duties may be obtained from the Public Assistance Officer, Public Assistance Offices, Broughton-road, Salford, 6, to whom they should be forwarded so as to be received not later than Monday, 20th February, 1939.

Canvassing, either directly or indirectly, will be a disqualification.

H. H. TOMSON, Town Clerk.

City and Royal Burgh of Edinburgh.

DEPUTE MEDICAL OFFICER OF HEALTH.

Applications are invited for the position of Depute Medical Officer of Health (Male) for the City of Edinburgh. The salary scale for the post is £900, rising to £1050 per annum.

Applicants must be in possession of the Diploma in Public Health and should have had experience in the administration of a large Public Health Department.

The successful applicant will be required to contribute to the Corporation's Superannuation Scheme and to undergo a medical examination.

No special form of application is issued.

Applications, stating age, qualifications, and experience, and accompanied by copies of three recent testimonials, should be forwarded to the Medical Officer of Health, Johnston-terrace, Edinburgh, 1, not later than 25th February, 1939.

D. ROBERTSON, Town Clerk.

City Chambers, Edinburgh, 3rd February, 1939.

Bedford County Hospital.

Wanted. SECOND HOUSE SURGEON to take over his duties Feb. 22nd for a term of six months. Must be fully qualified, Male, unmarried. Salary £150 per annum. Board, lodging, laundry.

Applications to be sent to the Secretary, Hon. Medical Staff Committee, stating age, nationality, qualifications, together with three recent testimonials.

Hull Corporation Health Department.

BEVERLEY ROAD INSTITUTION (HOSPITAL)
(400 Beds.)

MALE ASSISTANT MEDICAL OFFICER.

Applications are invited for the above appointment from duly qualified Medical Men, who must be single, and under the age of forty years.

Salary £350 per annum, rising by annual increments of £25 to £450 per annum, together with board, residence and laundry.

As the appointee will be required to work mainly in the Medical Wards, preference will be given to candidates with higher degrees in Medicine and special postgraduate experience in General Medicine.

The hospital is equipped with X Ray and Ultra-violet Light Departments.

The appointment is subject to the provisions of the Local Government Superannuation Act, 1937.

Applications, on forms to be obtained from the undersigned, are returnable not later than 10 A.M. on Monday, February 20th, 1939.

NICOLAS GEBBIE, M.D., Medical Officer of Health.
Health Department, Guildhall, Hull.
January 31st, 1939.

Royal Buckinghamshire Hospital,

AYLESBURY. (115 Beds.)

Applications are invited for the post of
SENIOR RESIDENT MEDICAL OFFICER (Male),
for (*a*) seven months, beginning * 1st March, or (*b*) six months, beginning * 1st April, 1939.
Salary £200 per annum, with full board, residence in own flat, and laundry.

Previous Hospital experience is desirable. Opportunity will be afforded to undertake all branches of medical and surgical practice, including anæsthesia, and to work with London Consultants.

Selected candidates will be required to attend for interview by the Medical Committee on Friday, 17th February, 1939.

Applications, together with copies of two recent testimonials, must reach the undersigned by Monday, 13th February, 1939.

F. G. DAWES, Secretary.

* State which in application.

Wonford House, Registered Hospital,

EXETER.

Applications are invited for the post of ASSISTANT MEDICAL OFFICER (Male, single) at a commencing salary of £350 per annum, increasing by annual increments of £30 to £500 per annum, together with board, lodging and laundry. An additional £50 per annum will be paid for the possession of the Diploma in Psychological Medicine.

Applicants should have previous mental hospital experience and be not more than forty years of age.

Applications, which must be received not later than the 25th February, 1939, should be addressed to the Medical Superintendent, together with copies of three recent testimonials.

The Warwickshire and Coventry Joint

COMMITTEE FOR TUBERCULOSIS.

KING EDWARD VII MEMORIAL SANATORIUM,
HERTFORD HILL, Near WARWICK.

Applications are invited for the post of JUNIOR ASSISTANT MEDICAL OFFICER (Man or Woman) at the Memorial Sanatorium, near Warwick, of 225 beds.

The salary will be at the rate of £250 per annum with board, lodging, and laundry in addition, and the successful candidate will be appointed for six months.

There are three other Medical Officers at the Sanatorium.

Applications, with copies of testimonials, should be forwarded direct to the Medical Superintendent at the Sanatorium to reach him by not later than Thursday, the 16th February, 1939.

L. EDGAR STEPHENS,
Clerk of the Joint Committee.
Shire Hall, Warwick, 30th January, 1939.

The Warwickshire and Coventry Joint

COMMITTEE FOR TUBERCULOSIS.

KING EDWARD VII MEMORIAL SANATORIUM,
HERTFORD HILL, Near WARWICK.

Applications are invited for the post of FIRST ASSISTANT MEDICAL OFFICER at the Memorial Sanatorium, near Warwick, of 225 Beds. Some previous experience in the diagnosis and treatment of Tuberculosis is desirable.

The salary will be at the rate of £350 per annum, rising by annual increments of £25 to a maximum of £450 per annum, with board, lodging, and laundry in addition.

There are three other Medical Officers at the Sanatorium.

Applications, with copies of testimonials, should be forwarded direct to the Medical Superintendent at the Sanatorium to reach him by not later than Thursday, the 23rd February, 1939.

L. EDGAR STEPHENS, Clerk of the Joint Committee.
Shire Hall, Warwick, 3rd February, 1939.

City of Portsmouth.

Applications are invited from Medical Practitioners, who must be of recognised consultant and specialist status, for the undermentioned part-time appointments at SAINT MARY'S HOSPITAL :—

1. VISITING SURGEON.
2. VISITING PHYSICIAN.
3. VISITING EAR, NOSE AND THROAT SPECIALIST.
4. VISITING RADIOLOGIST.
5. VISITING ORTHOPÆDIC SURGEON.
6. VISITING SKIN SPECIALIST.
7. CONSULTANT OBSTETRICIAN.
8. VISITING EYE SPECIALIST.

The appointments include service at any other hospital belonging to the City Council. They will be for one year and will be subject to annual review. Remuneration in accordance with the B.M.A. scale of part-time salaries.

Application forms, containing particulars of the above appointments, can be obtained from and must be returned to the Medical Officer of Health, The Guildhall, Portsmouth, not later than Wednesday, 22nd February, 1939.

F. J. SPARKS, Town Clerk.
The Guildhall, Portsmouth, 3rd February, 1939.

Surrey County Council.

APPOINTMENT OF DEPUTY MEDICAL
SUPERINTENDENT OF MENTAL HOSPITAL.

Applications are invited from registered Medical Practitioners (Male) for the post of Deputy Medical Superintendent in the Surrey County Mental Hospital Service.

Scale of salary £720, rising by annual increments of £25 to a maximum of £820 per annum. In fixing the commencing salary regard will be had to the experience and attainments of the person appointed. A house is provided on the Hospital Estate upon which a value is placed for superannuation purposes, and there are no other emoluments attached to the post. Candidates must hold the Diploma of Psychological Medicine.

The appointment is subject to the provisions of the Asylums Officers' Superannuation Act, 1909, and to termination by three calendar months' notice on either side. The person appointed will be required to undergo a medical examination.

Applications, stating age, and whether married or single, accompanied by copies of three recent testimonials, must reach the undersigned not later than Wednesday, the 1st March, 1939. The envelope should be marked "Deputy Medical Superintendent."

DUDLEY AUKLAND, Clerk of the Council.
Mental Hospitals Department, County Hall,
Kingston-upon-Thames, 6th February, 1939.

The Queen's University of Belfast.

Applications are invited for the post of TUTOR IN OBSTETRICS in the University. The person appointed will also hold the post of Senior Medical Officer in the Royal Maternity Hospital, where board and lodging is provided.

Candidates must be graduates of at least two years' standing and have held previous resident appointments in a Teaching Hospital.

Preference will be given to candidates holding or wishing to obtain higher degrees in Surgery, Obstetrics and Gynæcology, and must be members of a recognised Medical Defence Union.

The appointment in the first instance is for one year, but the Tutor may be reappointed for a further term.

Salary £300 per annum.

Special facilities are offered to a holder who desires to qualify himself for M.C.O.G. The successful candidate will be expected to take up office on 1st April, 1939.

Further particulars may be obtained from the undersigned, to whom applications should be sent on or before Monday, 27th February, 1939.

RICHARD H. HUNTER, Secretary.
Queen's University, Belfast.

Swansea General and Eye Hospital.

(336 Beds.)

HOUSE PHYSICIAN wanted. Gentleman, single. Salary £150 per annum, with board, residence, and laundry. Appointment for six months. Duties to commence 1st March.

Applications, stating age, nationality, qualifications, and experience, together with copies of three recent testimonials, to be forwarded to the undersigned.

O. C. HOWELLS, Secretary-Superintendent.

AMENDED ADVERTISEMENT

The Dewsbury and District General

INFIRMARY, DEWSBURY.

Applications are invited for the post of SECOND HOUSE SURGEON (Male) now vacant. The duties are principally those of a House Physician and Casualty Officer. Salary £150 per annum, with board, residence, and laundry.

The Infirmary is a new voluntary hospital of 100 Beds, and has the usual Special Departments, with Visiting Specialists in attendance.

Applications, stating age and hospital experience (if any), together with copies of recent testimonials, to be sent as immediately as possible to my office.

FRED SMITH, Secretary-Superintendent.

Dundee Royal Infirmary.

The Directors invite applications for the appointment to the Honorary Staff of an ASSISTANT VISITING OBSTETRICIAN AND GYNÆCOLOGIST. Particulars of duties, &c., may be obtained from the Medical Superintendent.

Applications and recent testimonials (twenty-four copies of each) should be lodged with the undersigned on or before 4th March, 1939.

W. F. FERGUSON, Secretary, Royal Infirmary, Dundee.

Severalls Mental Hospital, Colchester.

Required, FIRST ASSISTANT MEDICAL OFFICER (Deputy Medical Superintendent).

Applicants must have had Mental Hospital experience and possess D.P.M., and be not older than thirty-five years of age. Salary £875, rising after 5 years to £900. Quarters are available for a married man, and a charge of £78 per annum is made in respect of residence, light, and coal.

Applications, stating full particulars of qualifications, experience, age, &c., to be addressed to the Medical Superintendent not later than 22nd instant.

Kent and Sussex Hospital, Royal

TUNBRIDGE WELLS.
(210 Beds.)

Applications are invited for the appointment of HOUSE PHYSICIAN (Male). Salary £150 per annum, board, residence, and laundry in the Hospital.

The Hospital is approved by the University of London for the purpose of M.B. examinations.

The Hospital contains the following departments: Medical, Surgical, Ear, Nose and Throat, Ophthalmic, Orthopædic, Gynæcological, X-ray and Electrotherapeutic, Massage, Pathological, Venereal Diseases, &c.

Successful candidate will be required to take up duty on 1st March, 1939, and applications, stating qualifications, together with certificate of registration, and copies of not more than three recent testimonials, should be sent to the undersigned by 18th February, 1939.

TOM B. HARRISON, Superintendent-Secretary.

6th February, 1939.

City of Bradford.

MUNICIPAL GENERAL HOSPITAL, ST. LUKE'S.

Applications are invited for the post of JUNIOR OBSTETRICIAN AND GYNÆCOLOGIST.

The post is a part-time one, but the person appointed will be restricted to consulting practice in obstetrics and gynæcology.

A salary of £300 per annum is attached to the post.

Forms of application may be obtained from the Medical Officer of Health, Town Hall, Bradford, and should be returned to the undersigned not later than the 20th February, 1939.

N. L. FLEMING, Town Clerk.

Town Hall, Bradford, 4th February, 1939.

City of Bradford.

MUNICIPAL GENERAL HOSPITAL, ST. LUKE'S.

HOUSE PHYSICIANS and HOUSE SURGEONS required. Salary in each case £150 per annum, plus board and lodgings. These appointments are for six months, renewable for a further period of six months.

Application forms may be obtained from the Medical Officer of Health, Town Hall, Bradford, and should be returned to the undersigned not later than the 22nd February, 1939.

N. L. FLEMING, Town Clerk.

Town Hall, Bradford, 4th February, 1939.

St. Albans and Mid-Herts Hospital.

Applications are invited for the post of HON. SURGEON (Non-Consultant) to the above Hospital.

Applications, which should be received by 20th February, 1939, should be addressed to the Secretary, from whom all information may be obtained.

Applicants must reside within a reasonable distance of the Hospital.

Worcester County and City Mental

HOSPITAL, POWICK, Near WORCESTER.

Applications are invited for the post of ASSISTANT MEDICAL OFFICER. Applicants must be Male, single, under thirty-five years of age, and duly qualified in medicine and surgery. Commencing salary £350, rising by annual increments of £25 to a maximum salary of £450 per annum, together with furnished apartments, board, laundry, and attendance. A further £50 per annum will be paid if the selected candidate holds or obtains a Diploma in Psychological Medicine. Experience in anæsthetics will be a recommendation. The appointment is subject to the provisions of the Asylums Officers' Superannuation Act, 1909.

Applications, stating age and full particulars of qualifications and experience, accompanied by copies of three recent testimonials, to be forwarded to the Medical Superintendent not later than Wednesday, 22nd February, 1939.

Surrey County Council.

PUBLIC HEALTH DEPARTMENT.

REDHILL COUNTY HOSPITAL. (300 Beds.)

RESIDENT ASSISTANT MEDICAL OFFICER.

Applications are invited for the appointment of Resident Assistant Medical Officer at the Redhill County Hospital, Earlswood Common, Redhill.

The Medical Officer appointed must have had previous experience as House Surgeon and should preferably have had post-graduate obstetric experience.

The appointment is for a period of six months, renewable for a further period of six months, and the salary is at the rate of £250 per annum, together with full residential emoluments valued at £125 per annum.

Applications, stating age, qualifications, and experience, and enclosing copies of not more than three recent testimonials, should be addressed to the Medical Superintendent, Redhill County Hospital, Earlswood Common, Redhill, so as to be received not later than 22nd February, 1939.

DUDLEY AUKLAND, Clerk of the Council.

County Hall, Kingston-upon-Thames, 10th February, 1939.

Kent and Canterbury Hospital,

CANTERBURY.
183 Beds. 4 R.M.O.'s.

Applications are invited for the post of HOUSE SURGEON (Male) to the SPECIAL DEPARTMENTS (Ear, Nose, and Throat, Ophthalmic, and Urological).

The appointment is for a minimum period of six months commencing 3rd March, 1939.

Salary £125 per annum, with board, residence, and laundry.

The Hospital is recognised for the D.L.O. and D.O.M.S. examinations.

Applications, together with copies of recent testimonials, should be forwarded immediately to the undersigned.

J. F. KENT, Superintendent and Secretary.

Cardiff City Mental Hospital,

WHITCHURCH, GLAM.

HOUSE PHYSICIAN (Male), age not exceeding thirty years, required for above Hospital (790 Beds). Salary £200 per annum, with apartments, board, attendance, and laundry. Six-monthly appointment, renewable for a further six months. The Hospital provides facilities for all modern psychiatric treatment, is equipped with Research Laboratories (biochemical and pathological) under a whole-time Director of Research, conducts out-patient clinics, and is associated with the Welsh National School of Medicine for the teaching of Psychological Medicine.

Applications, together with copies of three recent testimonials, to be forwarded to the Medical Superintendent.

St. Bartholomew's Hospital, Rochester.

(200 Beds.)
Five Residents.

The House and Finance Committee invite applications for the post of HOUSE SURGEON which will become vacant on the 13th March, 1939.

Candidates must be unmarried, qualified and registered Medical Men. The appointment is for six months. Salary at the rate of £150 per annum, with board, residence, and laundry.

Applications, stating age, qualifications, experience, &c., accompanied by copies of two testimonials or one from the Dean of the candidate's Medical School, should be received by the Superintendent-Secretary, not later than NOON, 23rd February, 1939.

Canvassing the Honorary Staff will disqualify.

Rotherham Hospital.—Wanted, House

PHYSICIAN (Male), qualified. Salary £180, with board, residence, and laundry. 130 Beds. Excellent experience to be gained.

Applications, with copies of recent testimonials, to be sent to the Secretary, G. W. ROBERTS, 8, Moorgate-street, Rotherham.

The Duchess of York Hospital for

BABIES, MANCHESTER. (80 Beds.)

Applications are invited for the post of JUNIOR RESIDENT MEDICAL OFFICER. Appointment is for six months from 1st April, 1939. Salary at the rate of £75 per annum, with laundry.

Applications, together with copies of testimonials, to be sent to the Secretary by the 27th February, 1939.

LOUISE BAILEY, Secretary.

Royal Victoria Hospital, Dover.

66 Beds. Two Residents.

Wanted for 27th February, Second R.M.O. (Male), duly qualified and registered. Salary £140 per annum, with board residence, and laundry.

Applications, stating age, with particulars of experience, accompanied by copies of three recent testimonials, should be sent to the Secretary as soon as possible.

County Borough of Oldham.

SCHOOL MEDICAL DEPARTMENT.

ASSISTANT SCHOOL MEDICAL OFFICER.

Applications are invited from duly qualified and registered Medical Practitioners, who are not over forty-five years of age, for the position of whole-time Assistant School Medical Officer.

The salary will be at the rate of £550 per annum, rising by annual increments of £25 to £700. Applicants should have had three years' experience since qualifying, and similar service under another authority may be taken into consideration when fixing the commencing salary.

The duties will be principally in connexion with the work of the School Medical Department, but include duties in the Public Health Department.

The officer appointed will be required to devote his whole time to the duties and will be required to reside in the borough. Any fees received by him from any source shall be paid over to the Council. The post is designated under the Local Government and Other Officers' Superannuation Act, 1922, and the successful candidate will be required to pass a medical examination.

Canvassing or submitting testimonials from members of the Council or of any Committee appointed by the Council will be a disqualification.

Forms of application and conditions of appointment may be obtained from the Medical Officer of Health, Town Hall, Oldham, to whom they must be returned endorsed "School Medical Officer," together with copies of three recent testimonials, so as to be received not later than 9 A.M. on Monday, 6th March, 1939.

MAURICE HARRISON, Director of Education.

Education Offices, Oldham, 7th February, 1939.

Middlesex County Council.

WEST MIDDLESEX COUNTY HOSPITAL,
Twickenham-road, Isleworth.

VISITING EAR, NOSE AND THROAT SURGEON required for operative and consulting work. Two sessions weekly on Monday and Thursday mornings at £3 3s. per session. Appointment subject to three months' notice.

Written applications to the undersigned enclosing copies of not more than three recent testimonials by 25th February.

Canvassing directly or indirectly disqualifies.

C. W. RADCLIFFE "B.3," Clerk of the County Council.

Guildhall, Westminster, S.W.1.

Hove General Hospital, Hove.

(53 Beds.)

Applications are invited for the appointment of JUNIOR RESIDENT MEDICAL OFFICER (Male). Salary £120 per annum, with board, quarters and laundry. The successful applicant will be eligible to apply for the Senior post when a vacancy occurs which may be quite shortly.

Applications, stating age and qualifications, together with three recent testimonials, should be forwarded to the undersigned.

K. C. BOOKER, Secretary-Superintendent.

Western Infirmary of Glasgow

(Incorporated)

The Managers invite applications for a
FULL-TIME ASSISTANT RADIOLOGIST.

The salary is £400 per annum, and Candidates are requested to lodge with the subscriber, on or before February 22nd, 1939, seventeen applications with copies of at least two testimonials with each application.

Canvassing not permitted.

J. MATHESON JOHNSTON, Secretary and Treasurer.

87, Union-street, Glasgow.

Bristol Eye Hospital.

82 Beds. (12 Private Patients.)
(1938) 1232 In-patients. 20,652 Out-patients.

Applications are invited for the post of JUNIOR HOUSE SURGEON. Salary £100 per annum. Senior post available after six months. Vacant 1st April, 1939.

Suitable experience for D.O.M.S.

Applications, stating age and qualifications, &c., with three recent testimonials, to reach the undersigned by 1st March next.

D. M. BABER, Secretary and House Governor.

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ASSOCIATION, 85, Eccleston-square, S.W.1 (Telephone: Victoria 2722), supplies qualified Dispensers, Book-keepers, Laboratory Assistants, Sanitary Assistants, Male Nurses, Mental and Special Treatment Orderlies, Dental Clerk Orderlies, Porters, Caretakers, &c., without charge to respective employers.

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The National University of Ireland

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8. KENT COAST.—Favourite Residential Town.—Well-estab. mainly better-class non-panel, non-dispensing PRACTICE averaging about £1200 p.a. Choice of houses. Premium 1½ years' purchase. Scope for surgery.
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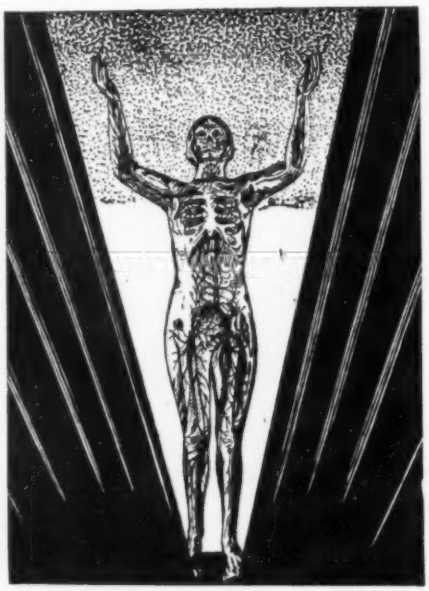

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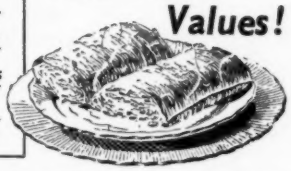

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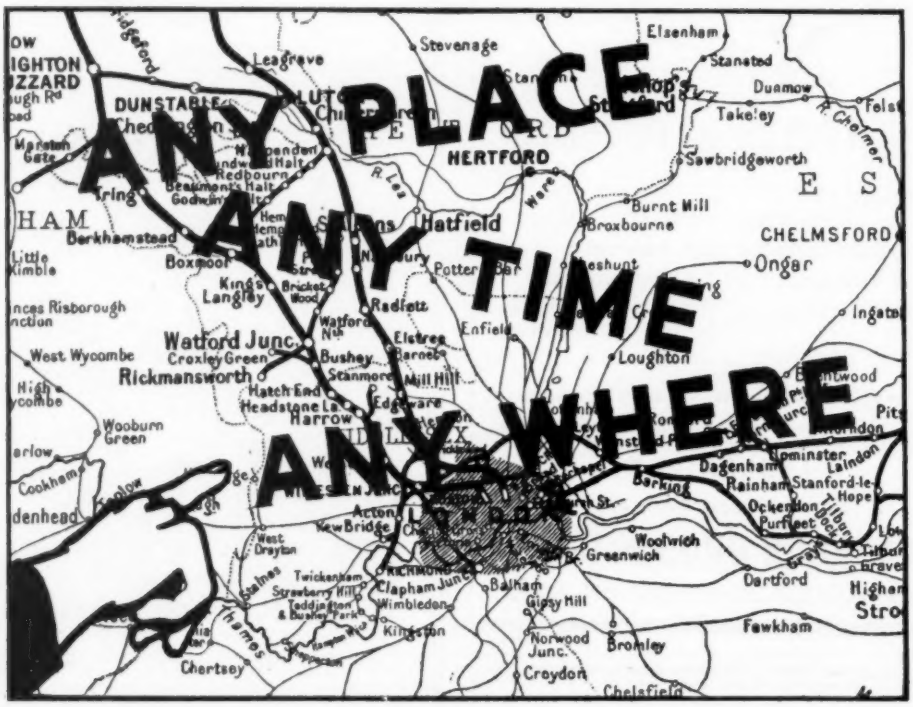

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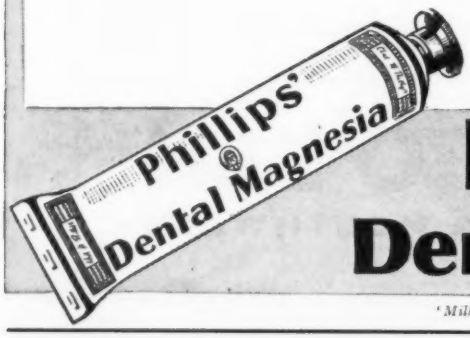

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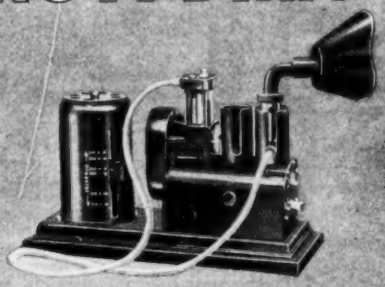

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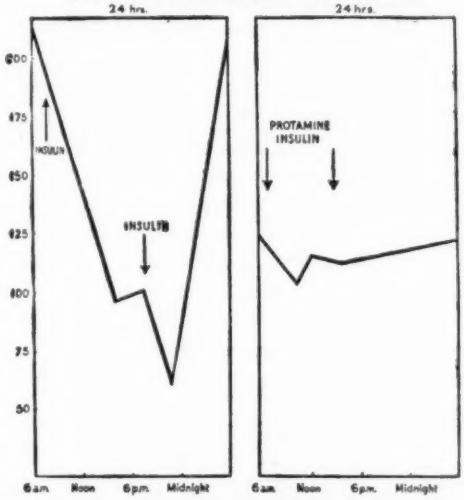

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One teaspoonful of HALIBORANGE is equivalent in vitamins A and D to one teaspoonful of cod-liver oil, and in vitamin C to two teaspoonfuls of fresh orange juice.

HALIBORANGE is an excellent addition to the diet of babies as a precaution against rickets and scurvy. For older children, adolescents, or adults, it is a prophylactic vitamin tonic.

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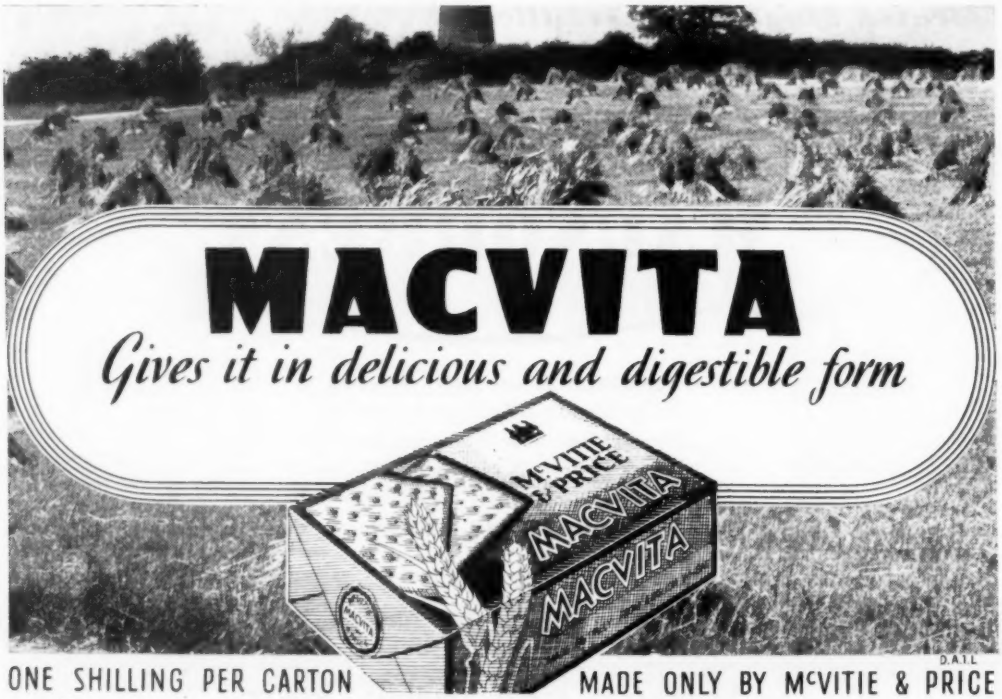

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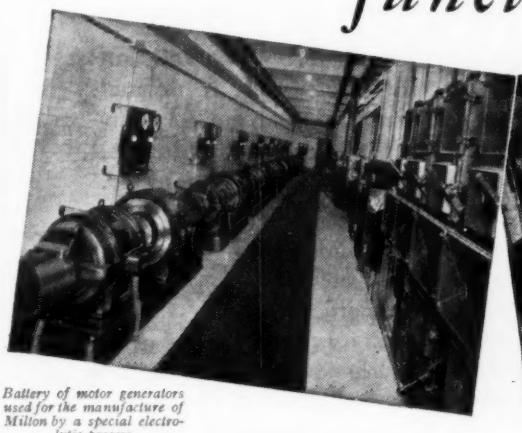
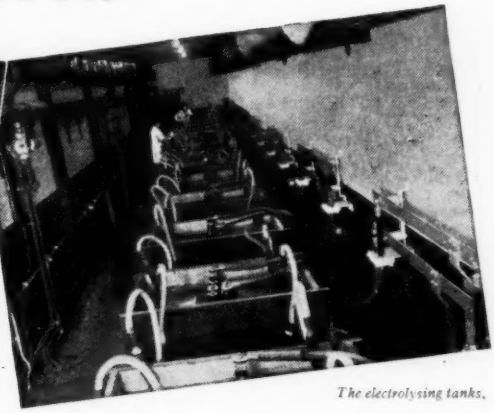


Battery of motor generators used for the manufacture of Milton by a special electrolytic process.



The electrolysing tanks.

The mutual reaction between Milton and organic tissue undoubtedly tends to reduce the germicidal power of the antiseptic in the presence of such tissues. ***But this reaction is the essence of hypochlorite wound treatment.***

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THE SAFE ANTISEPTIC FOR USE IN AND ON THE HUMAN BODY

INDICATIONS

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CATARRH.	A solution not exceeding 5% is most efficacious when applied by spraying.
DOUCHING.	Milton is alkaline, deodorant, germicidal, miscible with mucus and pus; harmless to delicate internal membranes.
WOUNDS, CUTS, SCALDS.	The hypochlorite characteristics of Milton are invaluable for cleansing, sterilising and dressing.

Members of the Medical Profession are invited to write to the Research Dept., Milton Proprietary Ltd., John Milton House, London, N.7, for free professional sample bottle of Milton and informative literature and copies of independent laboratory reports . . . or to arrange a visit to John Milton House.

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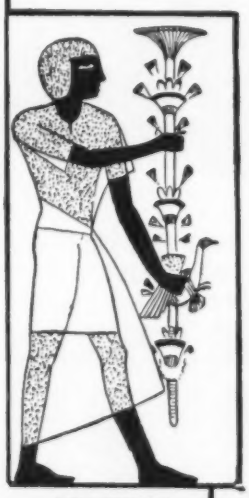
AT no time, throughout the span of life, is the proper and orderly balance of calcium, phosphorus and iron, vitamins and other highly important food elements more readily disturbed than during the period of active growth and development.

The food supply of every child should, therefore, contain an adequate proportion of these important substances, if normal progress is to be maintained. The construction of an entirely correct dietary, to suit the varying requirements of each individual is, however, beyond the possibility of realization in ordinary practice.



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In addition the prescription of 'Vita-Weat' ensures the presence in a restricted diet of necessary protective elements, vitamins and mineral salts.

διὰ δὴ ταύτην τὴν αἰτίην καὶ οὗτοί μοι δοκέουσι ζητῆσαι τροφὴν ἁρμόζουσαν τῇ φύσει καὶ εὑρεῖν ταύτην, ᾗ νῦν χρεώμεθα. ἐκ μὲν οὖν τῶν πυρῶν βρέξαντές σφας καὶ πτίσαντες καὶ καταλέσαντές τε καὶ διασήσαντες καὶ φορύξαντες καὶ ὀπτήσαντες ἀπετέλεσαν ἄρτον.

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Nor is 'Vita-Weat' a fat-forming food. In the treatment of Diabetes and Obesity it has been prescribed extensively for years in several of the best known London Hospitals.

● *A little booklet has been prepared for the medical profession, briefly summarising these and many other points in the case for a whole wheat crispbread. It will gladly be sent free to any doctor on application to Peek Frean & Co. Ltd., Keetons Road, London, S.E.16*

Vita-Weat (Reg'd)

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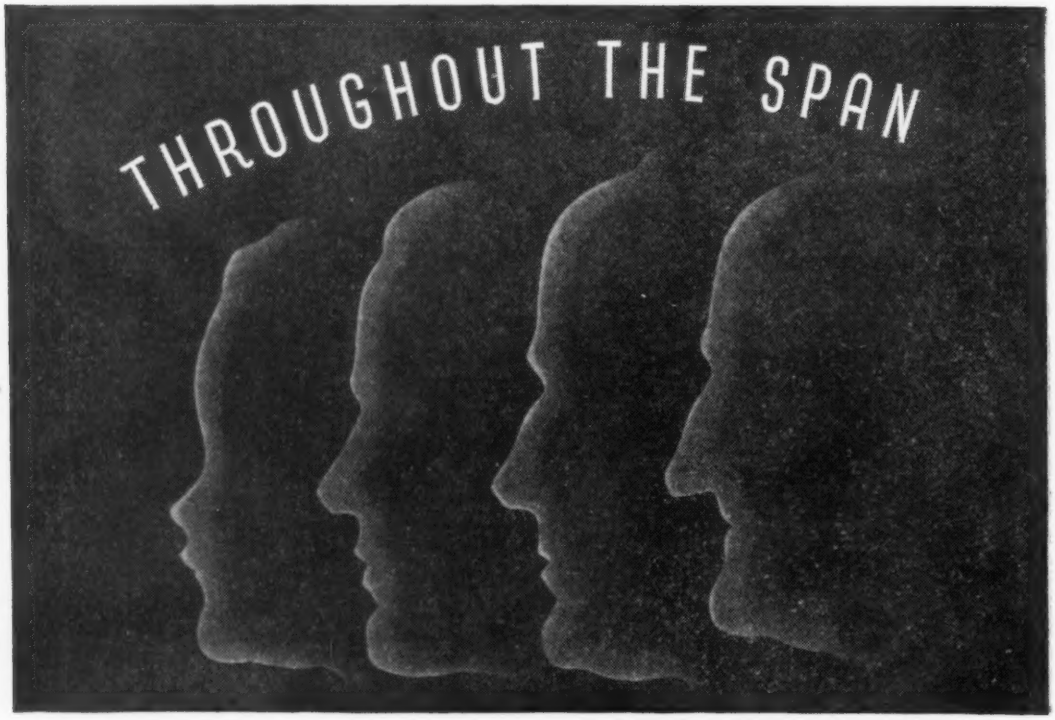

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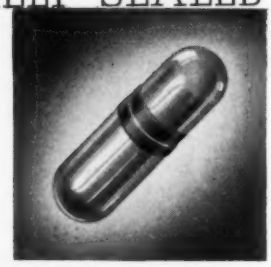

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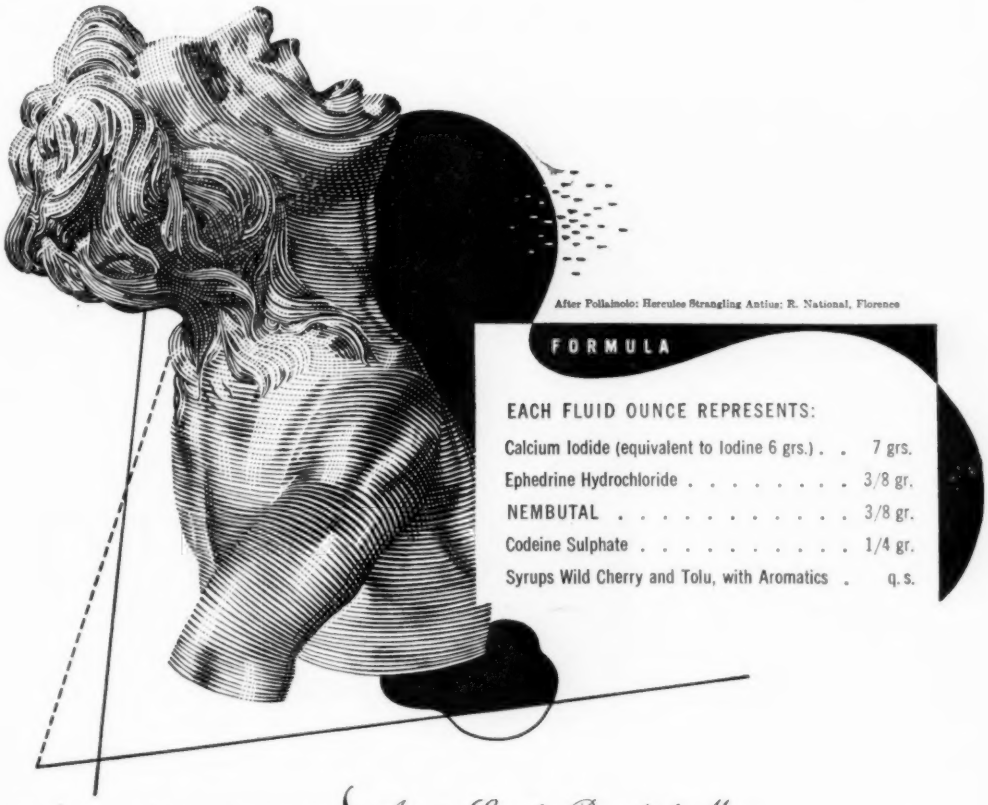

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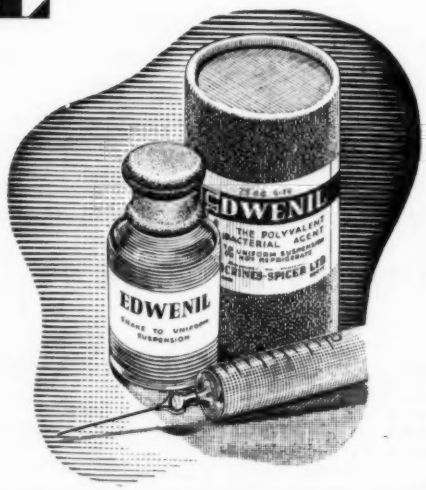

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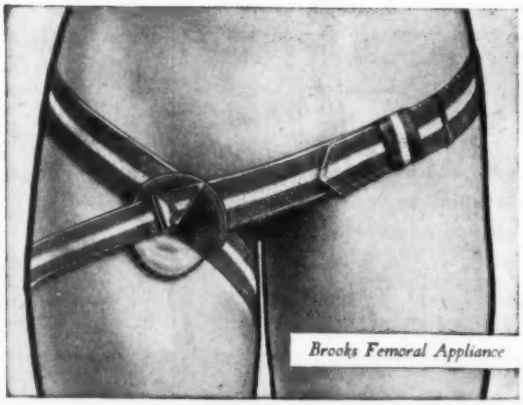

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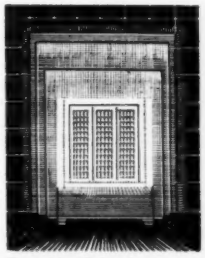

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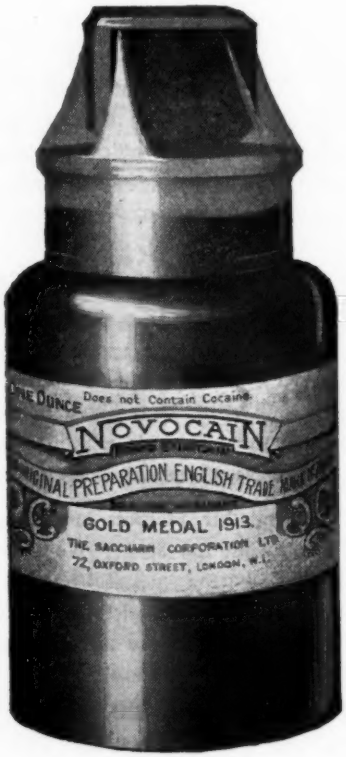

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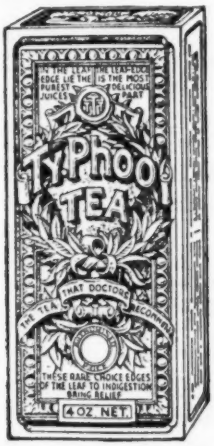

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The Timetable will be as follows:—

ANATOMY.

Professor J. D. BOYD, Dr. W. F. HARPER, the Reader in Anatomy, and Mr. E. C. BUTLER (Hon. Assistant Surgeon to the Hospital) will give a course of Lectures daily at 12 NOON (except Saturdays). Of these lectures Professor Boyd will give 20, Dr. Harper 20, and Mr. Butler 10. In addition there will be at least three demonstrations a week in the Dissecting Room at times to be arranged given by Professor Boyd, Dr. Harper and Mr. F. Stansfield, the Demonstrator of Anatomy.

PHYSIOLOGY AND HISTOLOGY.

Professor D. T. HARRIS will give two Special Lectures a week to gentlemen attending the Course on Mondays and Wednesdays at 9.40 A.M. These lectures, like other lectures of the Course, are confined to students working for the Primary Fellowship Examination.

Dr. CHARLES REID, the Reader in Physiology, will give a lecture-demonstration daily at 2 P.M. (except Saturdays).

Dr. W. A. M. SMART, the Lecturer in Histology, will give a lecture-demonstration once a week during the Course.

Members of the Course are also advised to attend the systematic lectures given by Professor HARRIS to Second M.B. candidates in their final year on Tuesdays, Thursdays and Fridays at 9.40 A.M.

There will be no lectures between April 7th and 15th, inclusive.

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7th.	General Scheme for Dealing with Wounded: (a) The Effects of Aerial Warfare. (b) Expectation of Casualties. (c) Protection of Buildings and Personnel. (d) Organisation of Medical Units. (e) Recording, Labelling, and Sorting of Cases.	Colonel E. M. COWELL, D.S.O., T.D., F.R.C.S., A.M.S. (T.A.).
8th.	Prevention and Treatment of Shock. Preparation of Cases for Transport.	Colonel E. M. COWELL, D.S.O., T.D., F.R.C.S., A.M.S. (T.A.).
9th.	Blood Transfusion	Dr. JANET M. VAUGHAN, D.M., M.R.C.P.
10th.	Common Infections of Wounds: Tetanus, Gas Gangrene, &c.	Mr. C. H. FRANKAU, C.B.E., D.S.O., M.S., F.R.C.S.
13th.	General Principles in the Treatment of Wounds. Classification of Cases and Surgical Treatment at Casualty Clearing Station.	Mr. G. GORDON-TAYLOR, O.B.E., M.S., F.R.C.S., F.R.A.C.S.
MARCH 1939		
14th.	Wounds of the Chest ..	Professor G. E. GASK, C.M.G., D.S.O., F.R.C.S., F.A.C.S.
15th.	Wounds of the Abdomen and Genito-urinary System.	Mr. G. GORDON-TAYLOR, O.B.E., M.S., F.R.C.S., F.R.A.C.S.
16th.	Wounds of the Abdomen and Genito-urinary System (*continued*).	Mr. G. E. NELIGAN, M.C., F.R.C.S.
17th.	Injuries of the Lower Limb..	Mr. ST. J. D. BUXTON, F.R.C.S.
20th.	Injuries of the Upper Limb and General Principles in the Treatment of Joint Injuries.	Mr. C. H. FRANKAU, C.B.E., D.S.O., M.S., F.R.C.S.
21st.	Injuries to Nerves and Vessels	Mr. P. H. MITCHINER, C.B.E., T.D., M.S., F.R.C.S.
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23rd.	Head Injuries	Mr. G. JEFFERSON, M.S., F.R.C.S.
24th.	Recent Experience in the War in Spain.	Dr. A. E. TUDOR HART, M.R.C.S., L.R.C.P.

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NOTICE OF ELECTION

Medical Act, 1886 (49 and 50 Vict. C. 48.)

NOTICE IS HEREBY GIVEN that, pursuant to the Medical Act, 1886, an ELECTION of ONE MEMBER of the General Council of Medical Education and Registration of the United Kingdom, to represent the registered medical practitioners resident in ENGLAND, is about to be held.

Every registered medical practitioner is qualified to be nominated as a candidate.

Each candidate must be nominated by a separate nomination paper.

Every registered medical practitioner resident in England is entitled to take part in nominating one candidate.

Every nomination paper must state the name, registered address, and registered qualification or qualifications of the candidate nominated; it must be signed by not fewer than twelve registered medical practitioners, resident in England, as nominating such candidate; and the registered address and registered qualification or qualifications of each one so signing must be appended to his signature.

Every nomination paper, accompanied by a declaration in writing signed by the person nominated, acknowledging that he consents to be nominated, must be delivered, by post or otherwise, on or before the 7th day of March, 1939, addressed to The Registrar of the Branch Council for England, 44, Hallam-street, London, W.1, where forms of nomination papers may, on application by post or otherwise, be obtained.

Every nomination paper in respect of which any of these Regulations has not been complied with, or which is not received at 44, Hallam-street, London, W.1, on or before the 7th day of March, 1939, will be invalid.

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DATES OF THE COURSES 1938/39

(Part II. cannot be taken before Part I.)

PART I.—*3rd January–24th March, 1939; 3rd April–23rd June, 1939.*

PART II.—*16th January–17th March, 1939; 17th April–16th June, 1939.* Fees (inclusive): Part I., £25; Part II., £15.

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A PRIVATE HOSPITAL for the treatment of mental and nervous illnesses. Conveniently situated and easy of access from all parts. Six acres of ground facing Finsbury Park. Voluntary and Temporary Patients received without certification. Occupational Therapy, Psychotherapy, and other modern forms of treatment.

Telephone: Stamford Hill 2688. *Telegrams:* "SUBSIDIARY, LONDON."

Convalescent Home, KEARSNEY COURT, DOVER.

For further particulars apply to the MEDICAL SUPERINTENDENT.

CAMBERWELL HOUSE

Telegrams: "PSYCHOLIA, LONDON." 33, PECKHAM RD., LONDON, S.E.5. Telephone: Rodney 4242 (2 lines).

For the treatment of MENTAL DISORDERS.

Also completely detached Villas for Mild Cases, with private suites if desired. Voluntary Patients received. Twenty acres of Grounds, Hard and Grass Tennis Courts, Putting Greens, Bowls, Croquet, Squash Rackets, Recreation Hall with Badminton Court, and all indoor amusements, including Wireless and other Concerts, Occupational Therapy, Calisthenics, and Dancing Classes. X-ray and Actino-therapy, Prolonged Immersion Baths, Operating Theatre, Pathological Laboratory, Dental Surgery, and Ophthalmic Department. Chapel. **Shock and also modified Insulin Therapy.**

Senior Physician: Dr. HUBERT JAMES NORMAN, assisted by a resident Medical Staff, and visiting Consultants.

An illustrated Prospectus, giving fees which are strictly moderate, may be obtained upon application to the Secretary.

The Convalescent Branch is Hove Villa, Brighton, and is 200 feet above sea level.

HAYDOCK LODGE,

NEWTON-LE-WILLOWS, LANCASHIRE.

For the reception and treatment of PRIVATE PATIENTS of both sexes of the UPPER AND MIDDLE CLASSES suffering from Mental and Nervous Disorders, Alcoholism and Drug addiction, either voluntarily, temporarily, or under certificate. Patients are classified in separate buildings according to their mental condition. Situated in park and grounds of 400 acres. Self-supported by its own farm and gardens in which patients are encouraged to occupy themselves. Every facility for indoor and outdoor recreation. For terms, prospectus, etc., apply MEDICAL SUPERINTENDENT. *'Phone:* Ashton-in-Makerfield 7311. *Tele. Address:* Street, Ashton-in-Makerfield.

CHISWICK HOUSE,

PINNER, MIDDLESEX.

Telephone: PINNER 234.

A Private Hospital for the Treatment and Care of Mental and Nervous Illnesses in both Sexes.

A modern country house, 12 miles from Marble Arch, in attractive and secluded surroundings. Fees from 10 guineas per week inclusive. Cases under Certificate, Voluntary and Temporary Patients received for treatment.

DOUGLAS MACAULAY, M.D., D.P.M.

FENSTANTON

Christchurch Road, Streatham Hill, S.W.2

A Private Home for the Treatment of LADIES with Mental and Nervous Disorders. Psycho-Therapy, Physio-Therapy, &c. 12 acres of grounds

Apply: Dr. MADELINE R. LOCKWOOD,
phone: TULSE HILL 7181 *Resident Physician Superintendent.*

Telegraphic Address: "Relief, Old Catton." Telephone: 290 Norwich.

NERVOUS & MENTAL AFFECTIONS

Ladies only received

The Grove, Old Catton, Norwich.

A High-class Home for the Curative Treatment of Nervous Affections. Voluntary Boarders are also received without certificates.

For full particulars apply to the Misses McLINTOCK or to Dr. S. BARTON, 34, Surrey-street, Norwich, Visiting Physician.

CITY OF LONDON MENTAL HOSPITAL

Near DARTFORD, KENT.

Ladies and Gentlemen received for treatment under certificates, and without certificate as either VOLUNTARY or TEMPORARY PATIENTS, at a weekly fee of £2 9s., and upwards.

EPPING HOUSE

LITTLE BERKHAMSTED, Nr. HERTFORD, HERTS.

An attractive and comfortable PRIVATE HOME. Beautifully situated in its own grounds, 400 feet above sea level. Exceptionally healthy air and position affords every facility for convalescence. Foam Baths, Billiards, Squash Racquets, Lawn Tennis, Croquet, Bowls, Farm Produce, &c.

Treatment for Ladies and Gentlemen suffering from Insomnia, Functional Nervous Disorders, Alcohol and Drug Habits, Chronic Heart and Kidney Diseases, also Convalescing Cases.

Telephone: Essenden 212. *Apply,* J. C. BAKER, M.B.

MALLING PLACE, KENT

For LADIES and GENTLEMEN of Unsound Mind.

Terms moderate. Apply to Resident Medical Superintendent. Telegrams: ADAM WEST MALLING. Telephone No. 2: MALLING.

Grove House, All Stretton, Church

STRETTON, SHROPSHIRE.

A PRIVATE HOME for the care and treatment of a limited number of Ladies Mentally Afflicted.

Climate healthy and bracing.

Apply to Dr. MCCLINTOCK, Proprietor and Resident Medical Superintendent.

RHEUMA SPA, KINMEL HALL,

ABERGELE, NORTH WALES

Modern Spa Treatments, including Continental Pistany Mud and Scotch Douche, for Rheumatic and similar disabilities. Resident Physician. Excellent amenities and Recreational facilities.

IDEAL WINTER QUARTERS—REDUCED RATES

Littleton Hall, Brentwood, Essex.

(18 miles from London.) 400 feet above sea.

A PRIVATE HOME for LADIES situated in large grounds. Voluntary, temporary, or certified cases received. Apply to Dr. HAYNES. Tel.: Brentwood 45.

PORTSMOUTH CITY MENTAL HOSPITAL

Accommodation is provided for the reception of PRIVATE PATIENTS of both sexes in three detached Villas, which are healthily and pleasantly situated in extensive grounds with sea views.

Charges from 3 guineas weekly, including all necessaries except clothing.—Apply to the Medical Superintendent and Resident Physician, THOMAS BEATON, O.B.E., M.D., F.R.C.P.

DR. BINSWANGER SANATORIUM BELLEVUE

KREUZLINGEN — SWITZERLAND

for Nervous and Mental cases

as well as all kinds of addiction

(Insulin shock treatment)

Doctor in charge: DR. LUDWIG BINSWANGER

Prospectus on application to the Management

Smedley's Great Britain's Greatest Hydro Matlock

Unrivalled suites of Baths—Turkish and Russian Baths, Aix and Vichy Douches, Massage; Plombières Treatment. Stude Chair. Electric Installation for Baths and other Medical Purposes, Dowsing Radiant Heat, Infra-red Light, Artificial Sunlight, D'Arsonval High Frequency, Diathermy, Nauheim Baths, Soapless Foam Baths, etc. "Certified" Milk from own farm. Large Winter Garden. Orchestra. Special provision for Invalids. Night attendance. Over 60 trained Male and Female Nurses, Masseurs, Attendants, etc.

Resident Physicians: C. C. R. HARRINSON, M.B., B.Ch., B.A.O. (R.U.I.), H. RHYS DAVIES, F.A., M.B., B.Ch., B.A.O. **TERMS, 13s. to 18s. per day, include Turkish and other Baths.** *Illustrated Brochure C.J. on request.*

'Phone: Matlock 17 (3 lines). *'Grams:* Smedleys, Matlock.

Woolwich and District War Memorial

HOSPITAL, Shooters Hill, London, S.E.18.
General Hospital. 112 Beds.

The Board of Management invites applications from suitably qualified Male candidates for the undermentioned appointments:

(*a*) HONORARY ASSISTANT SURGEON.

(*b*) HONORARY ASSISTANT OBSTETRIC SURGEON.

The Honorary Assistant Surgeon must be a Fellow of the Royal College of Surgeons (England), and the Honorary Assistant Obstetric Surgeon, a Fellow of the Royal College of Surgeons (England) and/or a Member of the Royal College of Obstetricians and Gynæcologists.

(*c*) HOUSE SURGEON.—This appointment will be for six months with effect from March 6th, 1939. An honorarium at the rate of £100 per annum will be paid, plus board, residence, and laundry. In addition to his surgical duties, the House Surgeon will have the care of a Maternity Unit of eight beds. Applications for this post, which is recognised by the Royal College of Surgeons for the six months' training required of candidates before admission to the Final Examination for the Fellowship, should be made on the prescribed form, obtainable from the undersigned.

The closing date for the receipt of applications for all three appointments is Friday, February 24th, 1939. Short-listed candidates will be invited to meet the Appointments Committee on Friday, March 3rd, 1939.

R. S. G. HUTCHINGS, Secretary.

University of London.—The Senate

invite applications for the UNIVERSITY CHAIR OF DENTAL SURGERY AND PATHOLOGY tenable at the Royal Dental Hospital of London School of Dental Surgery. Initial salary £1500 a year, rising in three years' time to £1600. Candidates must be registered Dental Practitioners and preference will be given to candidates possessing additional qualifications.

Applications (twelve copies) must be received not later than first post on 23rd March, 1939, by the Academic Registrar, University of London: Senate House, W.C.1, from whom further particulars should be obtained.

University of London.—The Senate

invite applications for the UNIVERSITY CHAIR OF MEDICINE tenable at St. Mary's Hospital Medical School. Salary £2000 a year. Applications (twelve copies) must be received not later than first post on 22nd March, 1939, by the Academic Registrar, University of London: Senate House, W.C.1, from whom further particulars should be obtained.

Borough of St. Marylebone.

APPOINTMENT OF MEDICAL OFFICER OF HEALTH.

The St. Marylebone Borough Council invite applications from duly registered Medical Practitioners, not exceeding forty-five years of age, possessing a diploma in Sanitary Science, Public Health or State Medicine, for the appointment of Medical Officer of Health of the Metropolitan Borough of St. Marylebone at the inclusive salary of £1350 per annum, rising by biennial increments of £100 to a maximum at the rate of £1750 per annum.

The appointment will be subject to (i) the approval of the Minister of Health, (ii) the relative Statutory provisions, (iii) the terms and conditions laid down by the Council, and (iv) medical examination. The official form of application, may be obtained from "The Town Clerk, Town Hall, St. Marylebone, W.1," to whom applications, endorsed "Medical Officer of Health," must be delivered in sealed envelopes not later than Wednesday, the 8th March, 1939.

The Council's Bye-laws provide that canvassing shall disqualify an applicant.

Central London Ophthalmic Hospital,

Judd-street, St. Pancras, W.C.1.

Applications are invited from registered Medical Practitioners for the posts of SENIOR and JUNIOR HOUSE SURGEON, vacant on March 31st. The Junior House Surgeon is a candidate for the Senior post. Salary £120 and £100 per annum respectively, with board and residence.

Applications, with copies of three testimonials, should reach the Secretary on or before February 25th.

GEORGE WATTS, Secretary.

Victoria Hospital for Children,
Tite-street, Chelsea, S.W.3.

The Committee of Management are prepared to receive applications for the following posts :—
(a) SURGEON TO OUT-PATIENTS (the Acting Assistant Surgeon is a candidate).
(b) HONORARY SURGICAL REGISTRAR. (Appointment for one year—renewable for a second year.)
Candidates are expected to call on members of the Honorary Medical Staff and should send in their applications to the Secretary not later than Saturday, February 25th, 1939.

D. ST. JOHN BAMFORD, Secretary.

Royal Masonic Hospital,
Ravenscourt-park, W.6.

Two RESIDENT SURGICAL OFFICERS (Male) are required. Duties to commence 1st April, 1939. Salary at the rate of £250 per annum, with board, residence and laundry. The appointments are for six months. Candidates must be registered, and must have held resident appointments at a general hospital. The Institution (145 Beds at present, but to be increased) is primarily for paying patients of both sexes of moderate means usually unable to afford ordinary nursing-home treatment, &c.

Applications, stating full particulars, to be sent on or before Monday, 6th March, 1939, to the Honorary Secretaries, from whom further information may be obtained.

Queen Mary's Hospital for the East
END, Stratford, London, E.15.

Applications are invited from fully qualified and registered Medical Men (only) for the following posts :—

	Salary	Period
RESIDENT MEDICAL OFFICER	£150	6 months
HOUSE PHYSICIAN	£120	6 months
HOUSE SURGEON	£120	6 months
CASUALTY OFFICER	£150	6 months
OBSTETRIC HOUSE SURGEON		6 months

In addition to his salary the Resident Medical Officer receives certain sums paid by the National Health Insurance.

The appointments will date from the 1st of April, 1939, and will be for six months except in the case of the Obstetric House Surgeon. This appointment will be for three months as Junior at £110 per annum and three months as Senior at £130 per annum, six months in all.

The Hospital contains 219 beds, including 50 for Maternity.

Candidates, who must be single, should send applications, with copies of testimonials, to the undersigned, not later than Thursday the 23rd of February, 1939.

Major RAPHAEL JACKSON, Secretary.

Charing Cross Hospital, W.C.2.

SURGICAL REGISTRAR.

The Council invite applications from candidates who must be registered Medical Practitioners (Male) for the post of Second Surgical Registrar. Honorarium £150 per annum.

A copy of the regulations can be obtained from the undersigned to whom applications, together with copies of three testimonials, must be submitted not later than Saturday, 25th February, 1939.

GEO. J. JONES, Secretary.
Charing Cross Hospital, London, W.C.2.

Saint Mary's Hospital for Women
AND CHILDREN, PLAISTOW.

Applications are invited for an HONORARY OPHTHALMIC SURGEON. Candidates should be Fellows of a Royal College of Surgeons also have held an appointment at an Ophthalmic Hospital or in the Ophthalmic Department of a General Hospital after graduation, or undertake to obtain such qualifications within twelve months of appointment.

Applications, with copies of three testimonials, to be sent to the undersigned as soon as possible.

A. ERNEST WILKES, Secretary.

Saint Mary's Hospital for Women
AND CHILDREN, PLAISTOW.

HONORARY DERMATOLOGIST.

Applications are invited for an Honorary Physician in charge of the Skin Department. Attendance on Wednesday afternoon each week. Applicants should be graduates of a University and Fellows or Members of the Royal College of Physicians.

Applications, with copies of testimonials, should be sent to the undersigned as soon as possible.

A. ERNEST WILKES, Secretary.

Connaught Hospital, E.17.
FOR WALTHAMSTOW, WANSTEAD, LEYTON, AND CHINGFORD.

Applications are invited for the appointment of HONORARY PHYSICIAN. Candidates must be Members or Fellows of the Royal College of Physicians.

Applications, together with copies of three testimonials, should be received by 3rd March.

The Hospital is one of 118 Beds, including private wards.

R. HALTON HARRISON, General Secretary.

Appointments for Medical Officers in The ROYAL AIR FORCE

Medical men are invited to apply for Short Service Commissions in the Royal Air Force.

Candidates must be registered under the Medical Acts and be not more than 31 years of age on entry.

The period of service is 3 years—extendible to 5 years. A gratuity of £400 or £1,000 is payable at the termination of 3 or 5 years respectively. Permanent commissions are awarded in a number of cases. These offer a pensionable career with the opportunity of extra leave on full pay for specialised study.

Applicants who hold—or are likely to hold—post-graduate appointments in civil hospitals may, on joining the Royal Air Force, be seconded until the termination of their appointments (for a period not exceeding one year) An antedate of commission, up to twelve months, is allowed for appointments held at approved hospitals.

Fuller information can be obtained from The Director of Medical Services, Air Ministry, Kingsway, London.

ROYAL NAVAL MEDICAL SERVICE

Vacancies exist for MEDICAL OFFICERS in the Royal Navy, and applications are invited for entry in March, 1939.

Candidates below the age of 28 years are preferred, and they must be registered under the Medical Acts. No examination in professional subjects will be held but candidates will be required to attend for interview by a Selection Board.

Selected candidates will be entered for Service for a period of three years, which if desired is usually extended to five years at the discretion of the Admiralty.

Officers who leave the Service at the end of the initial period of three years will be eligible for a gratuity of £400, and those who leave at the end of five years for a gratuity of £1,000.

At the end of five years' Short Service permanent commissions will be given to selected officers who wish to make the Naval Medical Service their permanent career. Officers transferred to the permanent list will receive a gratuity of £1,000 (less Income Tax).

Full opportunities exist for transfer to the permanent list. Marriage Allowance is paid under the same conditions as for other Naval Officers.

Opportunities are available for officers on the permanent list for post-graduate study, to specialise, to take higher examinations and to obtain further qualifications.

Copies of the regulations for entry and conditions of Service, including rates of pay, allowances and retired pay, may be obtained from the Medical Director-General of the Navy, Admiralty, S.W.1, and from the Deans of all Medical Schools.

Applications for entry from intending candidates must be received not later than 28th February, 1939.

Royal Eye Hospital,
St. George's-circus, S.E.1.

SENIOR HOUSE SURGEON and TWO ASSISTANT HOUSE SURGEONS required at the above Hospital. The appointment is in the first instance for a period of six months, with board and residence, as from 1st April.

Salaries: Senior House Surgeon, £150 per annum. Assistant House Surgeons, £100 per annum.

Candidates must be duly registered Practitioners. Applications, with copies of three recent testimonials, should be sent to the Secretary not later than Tuesday, 28th February.

F. E. D'ALTON, Secretary.

The Royal Cancer Hospital (Free)
(Incorporated under Royal Charter),
Fulham-road, London, S.W.3.

Applications are invited for the post of MEDICAL REGISTRAR. Candidates must be duly qualified and registered under the Medical Act and engaged in consulting practice only. Preference will be given to those holding the diploma of M.R.C.P.

The appointment is made for one year, subject to re-election. Honorarium £150 per annum.

Candidates must call upon each Member of the Medical Committee not later than Monday, 13th March, 1939. A copy of the rules and names and addresses of the Medical Committee may be obtained from the Secretary.

Applications, together with copies only of not more than three recent testimonials, to be sent to the undersigned not later than the first post on Tuesday, 7th March, 1939.

CLEMENT COBBOLD, Secretary.

The Royal Cancer Hospital (Free)
(Incorporated under Royal Charter),
Fulham-road, London, S.W.3.

Applications are invited for the office of ASSISTANT PHYSICIAN to the Hospital. Candidates must be Fellows or Members of the Royal College of Physicians, England, and a graduate in Medicine of a recognised British University.

The appointment is made subject to Rules and Conditions laid down by the Charter of Incorporation, details of which can be obtained from the Secretary.

Applications (eighteen copies), with copies of not more than three recent testimonials, should be sent to the undersigned not later than the first post on Tuesday, 7th March, 1939.

CLEMENT COBBOLD, Secretary.

The Royal Cancer Hospital (Free)
(Incorporated under Royal Charter),
Fulham-road, London, S.W.3.

Applications are invited for the post of full-time ASSISTANT RADIOLOGIST at the Hospital for the THERAPEUTIC DEPARTMENT.

Applicants must be registered Medical Practitioners who hold a diploma in Radiology.

The appointment will be for one year commencing on 16th March, 1939, at a salary at the rate of £350 per annum.

Applications, to be made on a form which will be supplied by the Secretary, together with three (copies only) recent testimonials, should be sent to the undersigned not later than the first post on Tuesday, 7th March, 1939.

CLEMENT COBBOLD, Secretary.

The Royal Cancer Hospital (Free)
(Incorporated under Royal Charter),
Fulham-road, London, S.W.3.

Applications are invited for the two posts of SURGICAL REGISTRAR. Candidates must be duly qualified and registered under the Medical Act, and engaged in consulting practice only. Preference will be given to those holding the diploma of F.R.C.S. Eng.

The appointments are made for one year, subject to re-election. Honorarium £150 per annum.

Candidates must call upon each Member of the Medical Committee not later than Monday, 13th March, 1939. A copy of the rules and names and addresses of the Medical Committee may be obtained from the Secretary.

Applications, together with copies only of not more than three recent testimonials, to be sent to the undersigned not later than the first post on Tuesday, 7th March, 1939.

CLEMENT COBBOLD, Secretary.

St. John's Hospital for Diseases of the SKIN, 5, Lisle-street, Leicester-square, W.C.2.

Applications for the posts of OUT-PATIENT and IN-PATIENT MEDICAL REGISTRARS are invited to be sent to the undersigned on or before Saturday morning, February 25th, 1939.

Honorarium £50 per annum in each case.

Applicants must be duly qualified and registered Medical Practitioners. Particulars of the duties can be obtained on application.

LEONARD G. R. TURPIN, Secretary.

February 9th, 1939.

London County Council.

Applications invited from Medical Practitioners of at least one year's standing for undermentioned positions. Candidates must have held resident appointment in general hospital for at least six months. Married quarters not available.

ASSISTANT MEDICAL OFFICERS (Class I).—Salary £350–£25–£425, with board, lodging, and washing.

(*a*) DULWICH HOSPITAL, East Dulwich-grove, S.E.22.—Experience in obstetrics and gynæcology essential.

(*b*) ST. ANDREW'S HOSPITAL, Devons-road, Bow, E.3.—Medical duties.

ASSISTANT MEDICAL OFFICERS (Class II).—Salary £250, with board, lodging, and washing. Appointment for one year only in first instance (renewable for second year under certain conditions).

*(*c*) ARCHWAY HOSPITAL, Archway-road, Highgate, N.19.—General medical duties.

(*d*) HAMMERSMITH HOSPITAL, Ducane-road, Shepherd's Bush, W.12.—General medical duties, experience in children's diseases desirable.

(*e*) ST. ANDREW'S HOSPITAL, Devons-road, Bow, E.3.—General duties and casualty officer.

(*f*) ST. GILES' HOSPITAL, St. Giles'-road, Camberwell, S.E.5.—Duties, midwifery, gynæcology, infants' wards.

(*g*) ST. MARY, ISLINGTON, HOSPITAL, Highgate Hill, N.19.—Medical duties, experience in anæsthetics desirable.

(*h*) ST. PANCRAS HOSPITAL, 4, St. Pancras-way, N.W.1.—General duties, experience in anæsthetics desirable.

(*i*) ST. STEPHEN'S HOSPITAL, 369, Fulham-road, S.W.10.—Duties mainly medical, experience in anæsthetics desirable.

* No accommodation for woman.

Application forms obtainable (stamped, addressed foolscap envelope necessary) from Medical Officer of Health, Staff Division 2, County Hall, S.E.1, returnable by 27th February.

Canvassing disqualifies.

ROYAL ARMY MEDICAL CORPS

SUPPLEMENTARY RESERVE OF OFFICERS

Vacancies exist for the appointment of registered Medical Practitioners to the above reserve.

Appointment is in the rank of Lieutenant with promotion to Captain after one year's service.

Members of Category "B" are eligible for an outfit allowance and full pay of their rank is issued during annual training (14 days), which is arranged at times to suit the individual officer.

Full particulars, together with forms of application, can be obtained from the Assistant Director-General, Army Medical Services, The War Office (A.M.D.1), Whitehall, London, S.W.1.

London Hospital, E.1.

There is a vacancy for the post of ASSISTANT SURGEON. Candidates must be Fellows of the Royal College of Surgeons of England.

Applications should be sent to the House Governor from whom further particulars may be obtained, and should arrive not later than on Saturday, March 11th.

ARTHUR G. ELLIOTT, House Governor.

London Hospital, E.1.

There is a vacancy for the appointment of FIRST ASSISTANT to the SKIN AND LIGHT THERAPY DEPARTMENTS. Salary £150 per annum.

Applications should be sent to the undersigned by Saturday March 11th.

H. L. MILSOM, Secretary.

London Hospital, E.1.

There is a vacancy for the post of RESIDENT ANÆSTHETIST.

The appointment is for one year, renewable up to three years.

Salary £150 per annum, rising to £200 if appointment renewed.

Applications should be sent to the Secretary, from whom further particulars may be obtained, and should arrive not later than Saturday, March 11th.

H. L. MILSOM, Secretary.

Dreadnought Seamen's Hospital,

Greenwich, S.E.10.

The Committee of Management of the Seamen's Hospital Society invite applications for the post of HONORARY DERMATOLOGIST. The elected candidate will have care of In- and Out-Patients and will be appointed for twelve months, but will be eligible for reappointment.

Candidates must be Doctors of Medicine of a University in the United Kingdom, or Ireland; or Fellows or Members of the Royal College of Physicians, London.

Applications to be sent in on or before the 24th February to the undersigned from whom further particulars can be obtained.

By Order,

16th January, 1939. F. A. LYON, Secretary.

The Committee of Management of the

Seamen's Hospital Society invite applications for the appointment of PHYSICIAN WITH CHARGE OF OUT-PATIENTS at the DREADNOUGHT SEAMEN'S HOSPITAL, GREENWICH. The elected candidate will have beds allotted to him, and will be appointed for twelve months, but will be eligible for re-election.

Candidates must be Doctors or Bachelors of Medicine of a University in the United Kingdom, and Fellows or Members of the Royal College of Physicians, London.

Applications to be sent in on or before the 1st March to the undersigned, from whom further particulars can be obtained.

By Order.

F. A. LYON, Secretary.

27th January, 1939.

Albert Dock Hospital, Alnwick Road,

E.16. (Seamen's Hospital Society).—SECOND RESIDENT MEDICAL OFFICER required for six months from the 1st April. Salary £110 per annum and a proportion of fees, with board, residence, and laundry. Candidates must be male and single.

Applications, with copies of three testimonials, to be sent in on or before the 3rd March, to the undersigned.

F. A. LYON, Secretary,
Seamen's Hospital Society Greenwich, S.E.10.

13th February, 1939.

Dreadnought Hospital,

Greenwich, S.E.10. (Seamen's Hospital Society). (257 Beds.)—HOUSE SURGEON required for six months as from the 1st April. Salary £110 per annum and a proportion of fees, with board, residence, and laundry. V.D. Certificate obtainable. Candidates must be male and single.

Applications, with copies of three testimonials, to be sent in on or before 3rd March to the undersigned.

F. A. LYON, Secretary.

13th February, 1939.

Borough of Edmonton.

APPOINTMENT OF ASSISTANT MEDICAL OFFICER OF HEALTH AND ASSISTANT SCHOOL MEDICAL OFFICER.

Applications are invited from duly qualified Medical Practitioners holding the diploma in Public Health, Sanitary Science or State Medicine for the position of Assistant Medical Officer of Health and Assistant School Medical Officer.

Candidates must be under forty-five years of age and the person appointed will be required to carry out Medical Inspections of School-children, bacteriological work, and administer dental anæsthetics and perform such other duties as may be allotted, as Assistant to the Medical Officer of Health and School Medical Officer.

The person appointed will be required to devote the whole time to the duties and will not be allowed to engage in private practice and will be required to reside within the Borough or within one mile of its boundaries.

The salary will be at the rate of £550 per annum, rising to £700 per annum by annual increments of £25.

It is proposed that the post shall be an established post for the purposes of the Local Government Superannuation Act, 1937, and the person appointed will be required to contribute to the Superannuation Fund and to pass the Council's Medical examination.

Copies of application forms and terms of appointment may be obtained on application to me the undersigned.

Applications, accompanied by copies of not more than three testimonials of recent date, must be delivered to me not later than 12 o'clock NOON on Tuesday, the 28th February, 1939.

Canvassing, either directly or indirectly, will be a disqualification.

By Order,
FREDK. W. CLAXTON, Town Clerk.

Town Hall, Edmonton, N.9, 15th February, 1939.

Royal Free Hospital,

Gray's Inn-road, W.C.1.

Applications are invited from duly qualified and registered Medical Women for the following post:—

RESIDENT CASUALTY OFFICER.

Duties to commence 1st April, 1939, for six months. Salary £150 per annum. Candidates must have held previous resident Hospital appointments.

The undersigned will supply application forms which should be completed and returned to him, accompanied by copies of three recent testimonials, on or before the 4th March, 1939.

RICHARD T. BARTLEY, Secretary.

British Postgraduate Medical School.

Applications are invited for the post of RESIDENT ANÆSTHETIST on the staff of the British Postgraduate Medical School at Hammersmith Hospital, Ducane-road, Shepherd's Bush, London, W.12. The appointment will be for six months, to commence duty on 1st April, 1939.

Salary will be at the rate of £150 per annum, with board, lodging, and laundry. Preference will be given to candidates who have held a similar appointment.

Applications, with copies of testimonials, should be sent to the Dean, British Postgraduate Medical School, Ducane-road, Shepherd's Bush, London, W.12, not later than the morning of Monday, 6th March, 1939.

The Royal Waterloo Hospital for CHILDREN AND WOMEN, Waterloo-road, S.E.1

ANÆSTHETIST.

There is a vacancy for an Anæsthetist (Male) at the above Hospital. Honorarium £100 per annum.

Applications, accompanied by three testimonials, should be sent to the undersigned, from whom further particulars can be obtained, not later than March 4th.

J. H. TEASDALE, Secretary.

Charing Cross Hospital.

REGISTRAR.

Applications are invited from Registered Medical Practitioners for the post of Registrar (Male) to the Part-time FRACTURE CLINIC and ORTHOPÆDIC DEPARTMENT. Honorarium £100 per annum.

Applications, together with copies of three testimonials, should be sent to the undersigned by Saturday, 25th February, 1939.

GEORGE J. JONES, Secretary.

Charing Cross Hospital, London, W.C.2.

Royal Northern Hospital, Holloway, N.7.

Applications are invited for the post of PATHOLOGICAL REGISTRAR vacant on 19th April, 1939. The appointment is for one year with eligibility for re-election. Times of attendance on application.

Honorarium £200 per annum, with lunch and tea provided.

Applications, with copies of testimonials, should be sent by March 3rd to the undersigned, from whom the necessary forms of application and rules can be obtained.

GILBERT G. PANTER, Secretary.

The Queen's Hospital for Children, Hackney-road, E.2, Bis. 4633.

DENTAL SURGEON required from 18th April, 1939, for L.C.C. School-children's Clinic. Attendance on Wednesday and Friday mornings, Friday afternoons, and on alternate Tuesday mornings. Present salary at rate of £1 7s. 3d. per session.

Applications, giving particulars of qualifications and experience, should be addressed to the Secretary, as above, not later than 8th March, 1939.

Corporation of London.

APPOINTMENT OF DEPUTY MEDICAL OFFICER OF HEALTH FOR THE PORT OF LONDON.

Applications are invited for the above appointment from registered Medical Practitioners whose age did not exceed fifty years on 1st January, 1939.

Applicants will be expected to have general experience in Port Health administration, particularly in the treatment of epidemic and infectious disease, in rat repressive measures in ships and dock areas and in the inspection and control of imported foodstuffs.

Salary £900 per annum, rising in the discretion of the Port of London Health Committee by annual increments of £50 to £1100 per annum. In addition the person appointed may be appointed as Medical Inspector of Aliens by the Minister of Health and in that case additional remuneration would be payable.

Forms of application, with full particulars of appointment, duties, &c., may be obtained from the Town Clerk, Guildhall, London, E.C.2.

Applications on the prescribed form, together with copies of three testimonials, must reach the Town Clerk's Office not later than noon on Monday, 27th February, 1939.

ROACH.

Guildhall, E.C.2, 13th February, 1939.

The London Lock Hospital, 283, Harrow-road, W.9.

Applications are invited for a RESIDENT MEDICAL OFFICER (Male) to all Departments. Candidates must be doubly qualified and duly registered. The appointment is for six months commencing 13th March; salary at the rate of £175 per annum, with furnished rooms, full board and laundry. Preference will be given to candidates having previous obstetric experience.

Applications, enclosing copies (only) of three recent testimonials, must be in the hands of the Secretary (from whom further particulars can be obtained) by first post on Friday, 3rd March.

The Grocers' Company offer each year

ONE SCHOLARSHIP for the encouragement of Original Medical Research into the Causation of Prevalent Disease or as to Means of Preventing Premature Death. The award, which is tenable for two years from 1st September, is of £300 for the first year and £450 for the second year, in addition to which the Court will grant up to £150 a year towards the cost of special apparatus, &c., required by the Scholar. Candidates should not be more than thirty-five years of age and should submit their applications to the undersigned before the 1st May.

Grocers' Hall, E.C.2. L. HICKMAN BARNES, Clerk.

Central London Throat, Nose and Ear HOSPITAL, Gray's Inn-road, W.C.1.

RESIDENT HOUSE SURGEON (Male).

There will be a vacancy for a Third Resident House Surgeon to enter on duty on 1st April next. The appointment will be for a period of nine months: three months as Third; three months as Second; and three months as First House Surgeon. Remuneration at the rate of £75 per annum.

Applications, accompanied by copies of not more than three recent testimonials, should be sent to the undersigned not later than 3rd March.

JOHN H. YOUNG, Secretary-Superintendent.

Royal London Ophthalmic Hospital (MOORFIELDS EYE HOSPITAL), City-road, E.C.1.

Applications are invited for the post of SENIOR RESIDENT OFFICER. Candidates must be registered Medical Practitioners and must be prepared to begin duties on the 1st May, 1939.

Salary at the rate of £150 per annum, with board and residence in the Hospital. Additional income will accrue to this post, the care of private patients being included in the duties.

In the event of the First House Surgeon being appointed other candidates are requested to state whether they would accept the office of First House Surgeon at the rate of £150 per annum, Second House Surgeon at the rate of £125 per annum, or Third House Surgeon at the rate of £100 per annum. The candidate elected as Third House Surgeon must be prepared to begin his duties with the present officer on 1st April, 1939, and will be non-resident until 1st May, 1939. The appointments are for a period of six months as from the 1st May, 1939.

Applications, with testimonials, stating age and qualifications, must be received not later than the 3rd March, 1939, by

A. J. M. TARRANT, Secretary.

University College Hospital, Gower-street, W.C.1.

Applications are invited for vacancies for Two HONORARY ANÆSTHETISTS. The successful applicants will be required to make a minimum of two attendances per week at the Hospital.

Applications, accompanied by such evidence of fitness for the post as the candidates may desire to furnish, must reach the Secretary not later than NOON on Saturday, the 25th February, 1939.

R. SLOLEY, Secretary of the Corporation.

February 13th, 1939.

Hospital for Consumption and Diseases OF THE CHEST, Brompton, S.W.3.

The Committee of Management invite applications for the post of MEDICAL REGISTRAR (half-time).

Salary £150 per annum.

Candidates must be Graduates in Medicine of a recognised University. Particulars as to duties, &c., may be obtained from the Secretary.

Applications, with copies of testimonials, must reach the undersigned not later than Monday, 6th March, 1939.

F. G. ROUVRAY, Secretary.

Brompton, February, 1939.

The Prince of Wales's General Hospital, London, N.15. (238 Beds.)

The following Resident Posts will be vacant on March 15th next:—

(*a*) JUNIOR HOUSE PHYSICIAN.

(*b*) Two JUNIOR HOUSE SURGEONS.

Salary at the rate of £90 per annum, board, residence, and laundry.

Appointments held for six months, but holders are eligible for a further term as Senior.

Candidates (Male and unmarried) must be fully qualified and registered, and applications (on the prescribed form) together with copies of three recent testimonials, should be sent to the undersigned on or before March 1st, 1939.

J. C. BURDETT, Director and House Governor.

The Prince of Wales's General Hospital, London, N.15.

The Governors of the Prince of Wales's General Hospital will shortly proceed to the election of an HONORARY ASSISTANT RADIOLOGIST.

Applications are invited from registered Medical Practitioners who are engaged in the practice of Radiology. The possession of a recognised diploma in Radiology is desirable.

A certain amount of private work is undertaken in the Department, from which fees accrue to the Honorary Officers of the Department. Particulars of these fees may be obtained from the Director.

Applications, together with copies of three recent testimonials, should reach the undersigned on or before Monday, March 13th.

J. C. BURDETT, Director and House Governor.

15th February, 1938.

King Edward Memorial Hospital,
EALING. (145 Beds.)

RESIDENT MEDICAL OFFICER (Male) required for 1st April, 1939. Work mainly surgical. Six months' appointment with possibility of re-election for a further period. Salary £275 per annum, with usual residential emoluments. Applicants must have had good experience (at least two years) in house appointments.

Applications, stating age, experience and qualifications, and accompanied by copies of two recent testimonials, to be sent to the undersigned by 3rd March, 1939.

R. A. MICKELWRIGHT, House Governor.

Hampstead General Hospital.
(OUT-PATIENTS' DEPARTMENT),
Bayham-street, Camden Town, N.W.1.

Applications are invited for the post of HONORARY CLINICAL ASSISTANT to the OPHTHALMIC DEPARTMENT.

Applications to be submitted to the Secretary forthwith at Haverstock-hill, N.W.3.

Cannock Urban District Council.

APPOINTMENT OF ASSISTANT MEDICAL OFFICER OF HEALTH AND ASSISTANT SCHOOL MEDICAL OFFICER.

The above Council invites applications from registered Medical Practitioners, of under thirty-five years of age, for the above-named post. The salary will be at the rate of £550 per annum, rising, subject to satisfactory service, by annual increments of £25 to £700 per annum, plus a travelling allowance of £30 per annum. Applicants must have had at least three years' experience in the practice of their own profession and special experience of practical midwifery, antenatal, and maternity and child welfare work, and hold a diploma in public health.

The person appointed will be required to devote the whole of his or her time to the duties which will be performed under the direction of the Medical Officer of Health, and will consist chiefly of School Medical and Maternity and Child Welfare work, together with such other duties relating to Public Health as may be required.

The appointment is subject to the approval of the Board of Education and will be determinable by two months' notice on either side.

The post is designated for the purposes of the Local Government and Other Officers' Superannuation Act, 1922, and the successful candidate will be required satisfactorily to pass a medical examination.

Sealed applications, on forms to be obtained from the undersigned (upon receipt of a stamped addressed foolscap envelope), accompanied by copies of three recent testimonials and endorsed "Assistant Medical Officer of Health," must be delivered to the undersigned not later than Monday, the 27th February, 1939.

Canvassing, directly or indirectly, will be deemed a disqualification.

WILLIAM C. SPEEDY, Clerk of the Council.

Council House, The Green, Cannock, 13th February, 1939.

Tilbury Hospital, Essex (Seamen's
Hospital Society.) (92 Beds.)—HOUSE SURGEON (Male) required for six months as from the 1st April. Salary £140 per annum, with board, residence, and laundry.

Applications, with copies of three testimonials, to be sent in on or before 8th March, to the undersigned.

F. A. LYON, Secretary,
Seamen's Hospital Society, Greenwich, S.E.10.

13th February, 1939.

Medical Superintendent, Tilbury
HOSPITAL ESSEX. (92 Beds.).—The Committee of Management of the Seamen's Hospital Society invite applications for this appointment, falling vacant on the 1st April. The appointment will be for one year in the first instance but may be renewed for two further periods of one year each to a maximum of three years. Commencing salary £200 per annum, with board, residence, supplemented by certain financial emoluments. Candidates must be Male, single, and not more than thirty-five years of age. Previous operative experience essential.

Applications, with copies of not more than three recent testimonials, to be sent in or before Wednesday, the 8th March, to the undersigned, from whom further particulars may be obtained.

F. A. LYON, Secretary,
Seamen's Hospital, Greenwich, S.E.10.

13th February, 1939.

The Royal Sea Bathing Hospital,
MARGATE.
(320 Beds—Mainly for Surgical Tuberculosis.)

A Male HOUSE SURGEON required on the 1st April next. The salary is at the rate of £200 per annum, with board, residence, attendance and laundry. Candidates for the post must be legally qualified and registered, unmarried, and of British nationality. The appointment is for six months, but may be extended for a further period of six months.

Applications, stating age, previous appointments, with copies of three recent testimonials, should be sent to the Secretary, R.S.B.H. Offices, 15, York Buildings, Adelphi, London, W.C.2.

County Borough of Walsall.

ASSISTANT MEDICAL OFFICER OF HEALTH.

Applications are invited from Medical Men for the post of Assistant Medical Officer of Health.

Salary will be at the rate of £500 per annum, rising, subject to satisfactory service, by £50 per annum to £700 per annum.

Applicants must be duly registered Medical Practitioners and be in possession of a Diploma in Public Health.

The Officer appointed will be required to take part in the general public health work of the Borough, including Maternity and Child Welfare and School Medical work.

Statement of duties and terms and conditions of appointment and form of application may be obtained from the undersigned.

Applications should be sent to me not later than 3rd March, 1939. Envelopes to be marked outside "Application re Asst. M.O.H."

The appointment will be subject to the provisions of the Local Government and Other Officers' Superannuation Act, 1922.

Canvassing, directly or indirectly, will be a disqualification.

H. LEE, Town Clerk.

Council House, Walsall, 16th February, 1939.

City of Plymouth.
CITY GENERAL HOSPITAL. (570 Beds.)

Applications are invited from duly qualified and registered Medical Practitioners for the post of JUNIOR ASSISTANT MEDICAL OFFICER.

Salary at the rate of £250 per annum, with full residential emoluments. All fees received by the Officer must be refunded to the Council.

The appointment will be for the period of six months in the first instance, and renewable for a period of six months, and will be terminable by one month's notice on either side.

The duties of the post will be chiefly on the medical side of the Hospital.

Further details may be obtained from the Medical Superintendent.

Forms of application may be obtained from the undersigned, and should be forwarded, together with copies of not more than three recent testimonials, not later than 28th February, 1939.

T. PEIRSON, Medical Officer of Health.

Town Hall, Stonehouse, Plymouth.

Royal Devon and Exeter Hospital,
EXETER. (280 Beds.)

THREE HOUSE SURGEONS (Male).
ONE HOUSE PHYSICIAN (Male).

Applications are invited for these posts, which become vacant on April 1st.

Appointments are for six months, but candidates are eligible for re-election.

Salary at the rate of £150 per annum, with board, lodging, and washing.

Applications, giving particulars as to age and qualifications, together with copies of three recent testimonials, should be sent to the undersigned on or before Saturday, 4th March, 1939.

S. S. COLE, Secretary and Manager.

N.B.—The duties of the third House Surgeon will be to act as House Surgeon to the Ear, Nose, and Throat Department, and also as House Surgeon to one of the Honorary Surgeons.

Cumberland Infirmary, Carlisle.
(200 Beds.)

Applications are invited for the following posts:—
HOUSE PHYSICIAN (Male),
Two HOUSE SURGEONS (Male).

Appointments are for six months from the 1st April, 1939, and holders will be eligible for a further term. Salary in each case at the rate of £160 per annum, with board, residence, and laundry.

The posts of House Surgeon are recognised by the Royal College of Surgeons of England under the regulations for the Final Fellowship Examination.

Applications, on forms obtainable from the undersigned, together with copies of not more than three testimonials, to be received not later than 1st March.

J. S. RIPPER, Secretary-Superintendent.

14th February, 1939.

Cardiff City Mental Hospital,
WHITCHURCH, GLAM.

HOUSE PHYSICIAN (Male), age not exceeding thirty years, required for above Hospital (790 Beds). Salary £200 per annum, with apartments, board, attendance, and laundry. Six-monthly appointment, renewable for a further six months. The Hospital provides facilities for all modern psychiatric treatment, is equipped with Research Laboratories (biochemical and pathological) under a whole-time Director of Research, conducts out-patient clinics, and is associated with the Welsh National School of Medicine for the teaching of Psychological Medicine.

Applications, together with copies of three recent testimonials, to be forwarded to the Medical Superintendent.

Leicester Royal Infirmary.

(500 Beds.)

Staff: 4 H.S., 3 H.P., 2 C.O., 3 Res. Anæs., 1 Res. Radiologist.

VACANCIES FOR APRIL 1st, 1939.

2 HOUSE PHYSICIANS.

Salary £125 per annum. Applicants must have held a Resident Hospital post or had similar experience of Hospital work.

3 HOUSE SURGEONS.

Salary £125 per annum. Applicants must have held a resident Hospital post or had similar experience of Hospital work.

Unsuccessful candidates will be considered for Senior Casualty Officer, if they so intimate.

2 CASUALTY OFFICERS.

Senior Casualty Officer, Fellowship standard. Salary £125 per annum.

Junior Casualty Officer. Salary £100 per annum.

2 RESIDENT ANÆSTHETISTS

Salary at the rate of £150 per annum for first six months. £200 per annum for second six months. £225 per annum for third six months. £250 per annum for fourth six months.

Application forms, obtainable from the House Governor and Secretary, should be returned not later than 20th February.

Appointments for six months will be made on the 1st March.

February 6th, 1939.

The Queen's University of Belfast.

Applications are invited for the post of TUTOR IN OBSTETRICS in the University. The person appointed will also hold the post of Senior Medical Officer in the Royal Maternity Hospital, where board and lodging is provided.

Candidates must be graduates of at least two years' standing and have held previous resident appointments in a Teaching Hospital.

Preference will be given to candidates holding or wishing to obtain higher degrees in Surgery, Obstetrics and Gynæcology, and must be members of a recognised Medical Defence Union.

The appointment in the first instance is for one year, but the Tutor may be reappointed for a further term.

Salary £300 per annum.

Special facilities are offered to a holder who desires to qualify himself for M.C.O.G. The successful candidate will be expected to take up office on 1st April, 1939.

Further particulars may be obtained from the undersigned, to whom applications should be sent on or before Monday, 27th February, 1939.

RICHARD H. HUNTER, Secretary.

Queen's University, Belfast.

City of Bradford.

MUNICIPAL GENERAL HOSPITAL, ST. LUKE'S.

HOUSE PHYSICIANS and HOUSE SURGEONS required. Salary in each case £150 per annum, plus board and lodgings. These appointments are for six months, renewable for a further period of six months.

Application forms may be obtained from the Medical Officer of Health, Town Hall, Bradford, and should be returned to the undersigned not later than the 22nd February, 1939.

N. L. FLEMING, Town Clerk.

Town Hall, Bradford, 4th February, 1939.

Wonford House, Registered Hospital,

EXETER.

Applications are invited for the post of ASSISTANT MEDICAL OFFICER (Male, single) at a commencing salary of £350 per annum, increasing by annual increments of £30 to £500 per annum, together with board, lodging and laundry. An additional £50 per annum will be paid for the possession of the Diploma in Psychological Medicine.

Applicants should have previous mental hospital experience and be not more than forty years of age.

Applications, which must be received not later than the 25th February, 1939, should be addressed to the Medical Superintendent, together with copies of three recent testimonials.

The Warwickshire and Coventry Joint

COMMITTEE FOR TUBERCULOSIS.

KING EDWARD VII MEMORIAL SANATORIUM, HERTFORD HILL, Near WARWICK.

Applications are invited for the post of FIRST ASSISTANT MEDICAL OFFICER at the Memorial Sanatorium, near Warwick, of 225 Beds. Some previous experience in the diagnosis and treatment of Tuberculosis is desirable.

The salary will be at the rate of £350 per annum, rising by annual increments of £25 to a maximum of £450 per annum, with board, lodging, and laundry in addition.

There are three other Medical Officers at the Sanatorium.

Applications, with copies of testimonials, should be forwarded direct to the Medical Superintendent at the Sanatorium to reach him by not later than Thursday, the 23rd February, 1939.

L. EDGAR STEPHENS, Clerk of the Joint Committee.

Shire Hall, Warwick, 3rd February, 1939.

Middlesex County Council.

MIDDLESEX COLONY, SHENLEY.

THIRD ASSISTANT MEDICAL OFFICER required at the above Institution. Applicants should be fully qualified and registered. Single, and under thirty-five years of age. Salary £365 per annum, rising by six consecutive annual increments of £20 each to a maximum of £485 per annum, with emoluments valued at £150 per annum.

Applications, together with copies of three recent testimonials, to be forwarded to the Medical Superintendent, Middlesex Colony, Harper-lane, Shenley, near St. Albans.

Worcester County and City Mental

HOSPITAL, POWICK, Near WORCESTER.

Applications are invited for the post of ASSISTANT MEDICAL OFFICER. Applicants must be Male, single, under thirty-five years of age, and duly qualified in medicine and surgery. Commencing salary £350, rising by annual increments of £25 to a maximum salary of £450 per annum, together with furnished apartments, board, laundry, and attendance. A further £50 per annum will be paid if the selected candidate holds or obtains a Diploma in Psychological Medicine. Experience in anæsthetics will be a recommendation. The appointment is subject to the provisions of the Asylums Officers' Superannuation Act, 1909.

Applications, stating age and full particulars of qualifications and experience, accompanied by copies of three recent testimonials, to be forwarded to the Medical Superintendent not later than Wednesday, 22nd February, 1939.

The Guest Hospital, Dudley.

(General Hospital—139 Beds.)

The Resident Staff consists of a Resident Surgical Officer and three House Surgeons.

HOUSE SURGEON (Male) required. Duties to commence March 2nd, 1939. Salary at the rate of £150 per annum, with furnished apartments, board, and laundry. Candidates must be fully qualified and registered.

Applications, stating age, qualifications, and experience, accompanied by copies of testimonials, to be sent to the undersigned.

H. RAYMOND HURST, House Governor and Secretary.

2nd February, 1939.

The Guest Hospital, Dudley.

(General Hospital. 139 Beds.)

The Resident Staff consists of a Resident Surgical Officer and three House Surgeons.

Applications are invited from registered Medical Practitioners for the post of RESIDENT SURGICAL OFFICER (Male). Duties to commence on or about March 1st, 1939. Salary at the rate of £250–£300 per annum, according to experience, with furnished apartments, board, and laundry. Candidates must have had experience in emergency surgery, and preference will be given to those holding the qualification of F.R.C.S. or M.S.

Applications, stating age, qualifications, and experience, accompanied by copies of testimonials, to be sent to the undersigned.

H. RAYMOND HURST, House Governor and Secretary.

2nd February, 1939.

City and Royal Burgh of Edinburgh.

DEPUTE MEDICAL OFFICER OF HEALTH.

Applications are invited for the position of Depute Medical Officer of Health (Male) for the City of Edinburgh. The salary scale for the post is £900, rising to £1050 per annum.

Applicants must be in possession of the Diploma in Public Health and should have had experience in the administration of a large Public Health Department.

The successful applicant will be required to contribute to the Corporation's Superannuation Scheme and to undergo a medical examination.

No special form of application is issued.

Applications, stating age, qualifications, and experience, and accompanied by copies of three recent testimonials, should be forwarded to the Medical Officer of Health, Johnston-terrace, Edinburgh, 1, not later than 25th February, 1939.

D. ROBERTSON, Town Clerk.

City Chambers, Edinburgh, 3rd February, 1939.

Kent and Canterbury Hospital,

CANTERBURY.

183 Beds. 4 R.M.O.'s.

Applications are invited for the post of HOUSE SURGEON (Male) to the SPECIAL DEPARTMENTS (Ear, Nose, and Throat, Ophthalmic, and Urological).

The appointment is for a minimum period of six months commencing 3rd March, 1939.

Salary £125 per annum, with board, residence, and laundry.

The Hospital is recognised for the D.L.O. and D.O.M.S. examinations.

Applications, together with copies of recent testimonials, should be forwarded immediately to the undersigned.

J. F. KENT, Superintendent and Secretary.

Bedford County Hospital.

Wanted. SECOND HOUSE SURGEON to take over his duties Feb. 22nd for a term of six months. Must be fully qualified, Male, unmarried. Salary £150 per annum. Board, lodging, laundry.

Applications to be sent to the Secretary, Hon. Medical Staff Committee, stating age, nationality, qualifications, together with three recent testimonials.

County Borough of Oldham.

SCHOOL MEDICAL DEPARTMENT.

ASSISTANT SCHOOL MEDICAL OFFICER.

Applications are invited from duly qualified and registered Medical Practitioners, who are not over forty-five years of age, for the position of whole-time Assistant School Medical Officer.

The salary will be at the rate of £550 per annum, rising by annual increments of £25 to £700. Applicants should have had three years' experience since qualifying, and similar service under another authority may be taken into consideration when fixing the commencing salary.

The duties will be principally in connexion with the work of the School Medical Department, but include duties in the Public Health Department.

The officer appointed will be required to devote his whole time to the duties and will be required to reside in the borough. Any fees received by him from any source shall be paid over to the Council. The post is designated under the Local Government and Other Officers' Superannuation Act, 1922, and the successful candidate will be required to pass a medical examination.

Canvassing or submitting testimonials from members of the Council or of any Committee appointed by the Council will be a disqualification.

Forms of application and conditions of appointment may be obtained from the Medical Officer of Health, Town Hall, Oldham, to whom they must be returned endorsed "School Medical Officer," together with copies of three recent testimonials, so as to be received not later than 9 A.M. on Monday, 6th March, 1939.

MAURICE HARRISON, Director of Education.

Education Offices, Oldham, 7th February, 1939.

The Prince of Wales's Hospital,

GREENBANK ROAD, PLYMOUTH.
(Formerly South Devon and East Cornwall Hospital.)
(264 Beds.)

There are vacancies for Two HOUSE SURGEONS at the above Hospital. Applications are invited for the same. Salary £120 per annum, with board, residence, and laundry.

Appointments are tenable for six months and are subject to renewal. Duties to commence 10th and 15th March.

The Hospital is officially recognised for the surgical practice required before admission to the Final Fellowship Examination of the Royal College of Surgeons of England.

Applicants must be registered under the Medical Acts. Applications, stating age and qualifications, with copies of three recent testimonials, to reach the undersigned by 24th February.

ARTHUR R. CASH, General Superintendent.

4th February, 1939.

The Prince of Wales's Hospital,

GREENBANK ROAD, PLYMOUTH.
(Formerly South Devon and East Cornwall Hospital.)
(264 Beds.)

Applications are invited for the post of RESIDENT ANÆSTHETIST and HOUSE SURGEON to the Special Departments.

Salary £120 per annum, with board, residence, and laundry.

Appointment is tenable for six months and is subject to renewal. Duties to commence 10th March.

The Hospital is officially recognised for the surgical practice required before admission to the Royal Fellowship Examination of the Royal College of Surgeons of England.

Applicants must be registered under the Medical Acts. Applications, stating age and qualifications, with copies of three recent testimonials, to reach the undersigned not later than 24th February, 1939.

ARTHUR R. CASH, General Superintendent.

4th February, 1939.

Prince of Wales's Hospital,

Lockyer-street, PLYMOUTH.
(Formerly Central Hospital, Lockyer-street, Plymouth.)
(50 Beds.)

Applications are invited for the post of HOUSE SURGEON. Salary £150 per annum, with board, residence, and laundry. Duties to commence 19th March.

Appointment is tenable for six months and is subject to renewal.

Applications, stating age and qualifications, with copies of three recent testimonials, to reach the undersigned by 3rd March, 1939.

ARTHUR R. CASH, General Superintendent.
Prince of Wales's Hospital,
Greenbank-road,
Plymouth.

11th February, 1939.

County Borough of Brighton.

SENIOR RESIDENT MEDICAL OFFICER AT THE BOROUGH INFECTIOUS DISEASE HOSPITAL AND SANATORIUM.

The Council invite applications for the above appointment from duly qualified unmarried Male Medical Practitioners under forty years of age.

The salary will be at the rate of £450 per annum, rising by annual increments of £25 to £500, together with board and lodging at the Borough Sanatorium. Preference will be given to candidates entering the Public Health Service.

Forms of application and particulars of the duties to be performed, and of the conditions upon which the appointment will be made, may be obtained from the undersigned.

The post is designated under the Local Government and Other Officers' Superannuation Act, 1922, and the successful candidate will be required to pass a medical examination before being appointed to the position.

Applications (with copies of three recent testimonials enclosed), endorsed "Appointment of Senior Resident Medical Officer" must be delivered at my office before 10 A.M. on Monday, 27th February, 1939.

Canvassing members of the Council, either directly or indirectly, will disqualify any applicant for the position.

DUNCAN FORBES, Medical Officer of Health.

Royal York Buildings, Brighton, 1, 1st February, 1939.

City of Stoke-on-Trent.

SENIOR ASSISTANT MATERNITY AND CHILD WELFARE OFFICER.

Applications are invited from fully qualified Medical Practitioners (Women) not over forty-five years of age, for the position of Senior Assistant Medical Officer for Maternity and Child Welfare. The possession of a D.P.H. will be considered an additional qualification. Preference will be given to applicants who have had a six months' resident appointment in a childrens' hospital and in a maternity hospital. The duties include attendance at Maternity and Child Welfare Centres, and such other duties as may be prescribed. The salary to be paid is £600, rising by £25 annually to £750 per annum.

The appointment is subject to the Superannuation Act, 1937.

Applications endorsed "Assistant M. and C.W. Officer," together with not more than three recent testimonials, to be submitted not later than February 27th, 1939, to: E. B. SHARPLEY, Town Clerk, Town Hall, Stoke-on-Trent.

February 7th, 1939.

City of Plymouth.

ASSISTANT MEDICAL OFFICER OF HEALTH.

Applications are invited from duly qualified Medical Practitioners for the appointment of an additional Assistant Medical Officer of Health as from the 1st April, 1939, at a salary of £500, rising by £25 annually, to £700 per annum, for Maternity and Child Welfare and School Medical duties.

The appointment will be whole time and the person appointed will be required to refund to the Council any fees received in respect of any work, where such work is undertaken by virtue of the office or is in consequence of being a Medical Officer of the Corporation.

The successful applicant will be required to act under the general supervision of the Medical Officer of Health and to carry out any duties delegated by him from time to time.

The post will be subject to the provisions of the Local Government Superannuation Act, and will be terminable by two months' notice on either side.

Forms of application may be obtained from the undersigned and should be returned, together with copies of not more than three recent testimonials, on or before Monday, 27th February, 1939.

T. PEIRSON, Medical Officer of Health,
City and Port of Plymouth.

Town Hall, Stonehouse, Plymouth.

Rotherham Hospital.—Wanted, House

PHYSICIAN (Male), qualified. Salary £180, with board, residence, and laundry. 130 Beds. Excellent experience to be gained.

Applications, with copies of recent testimonials, to be sent to the Secretary, G. W. ROBERTS, 8, Moorgate-street, Rotherham.

The Duchess of York Hospital for

BABIES, MANCHESTER. (80 Beds.)

Applications are invited for the post of JUNIOR RESIDENT MEDICAL OFFICER. Appointment is for six months from 1st April, 1939. Salary at the rate of £75 per annum, with laundry.

Applications, together with copies of testimonials, to be sent to the Secretary by the 27th February, 1939.

LOUISE BAILEY, Secretary.

Royal Victoria Hospital, Dover.

66 Beds. Two Residents.

Wanted for 27th February, Second R.M.O. (Male), duly qualified and registered. Salary £140 per annum, with board, residence, and laundry.

Applications, stating age, with particulars of experience, accompanied by copies of three recent testimonials, should be sent to the Secretary as soon as possible.

Middlesex County Council.

WEST MIDDLESEX COUNTY HOSPITAL,
Twickenham-road, Isleworth.

VISITING EAR, NOSE AND THROAT SURGEON required for operative and consulting work. Two sessions weekly on Monday and Thursday mornings at £3 3s. per session. Appointment subject to three months' notice.

Written applications to the undersigned enclosing copies of not more than three recent testimonials by 25th February.

Canvassing directly or indirectly disqualifies.

C. W. RADCLIFFE "B.3," Clerk of the County Council.
Guildhall, Westminster, S.W.1.

Royal Borough of Kingston-upon-THAMES.

MEDICAL ASSISTANT TO MEDICAL OFFICER OF HEALTH.

Applications are invited from qualified Medical Practitioners for the appointment of a full-time Medical Assistant (Male) in the Public Health Department at a salary in accordance with the Askwith Memorandum commencing at £600 per annum.

Applicants should have had experience in public health administration and must hold a diploma in sanitary science, public health, or state medicine.

The person appointed will be required to act under the direction and supervision of the Medical Officer of Health (who is also School Medical Officer and Maternity and Child Welfare Officer) in carrying out the relevant statutory duties and such other duties as may from time to time be assigned to the Medical Officer, and he will be required to assist in the work of the Casualty Services in connexion with Air-Raid Precautions.

The appointment, which will be determinable by three months' notice on either side, will be subject to the Local Government Superannuation Act, 1937, and to the person appointed passing a medical examination.

Applications, on forms to be obtained from the Medical Officer at the Guildhall, accompanied by copies of three recent testimonials, must be received by me not later than Friday, the 24th February, 1939.

A. W. FORSDIKE, Town Clerk.
Guildhall, Kingston-upon-Thames, 31st January, 1939.

Surrey County Council.

PUBLIC HEALTH DEPARTMENT.

REDHILL COUNTY HOSPITAL. (300 Beds.)

RESIDENT ASSISTANT MEDICAL OFFICER.

Applications are invited for the appointment of Resident Assistant Medical Officer at the Redhill County Hospital, Earlswood Common, Redhill.

The Medical Officer appointed must have had previous experience as House Surgeon and should preferably have had post-graduate obstetric experience.

The appointment is for a period of six months, renewable for a further period of six months, and the salary is at the rate of £250 per annum, together with full residential emoluments valued at £125 per annum.

Applications, stating age, qualifications, and experience, and enclosing copies of not more than three recent testimonials, should be addressed to the Medical Superintendent, Redhill County Hospital, Earlswood Common, Redhill, so as to be received not later than 22nd February, 1939.

DUDLEY AUKLAND, Clerk of the Council.
County Hall, Kingston-upon-Thames, 10th February, 1939.

City of Nottingham.

PHYSICIAN (TEMPORARY).

The Nottingham City Council requires immediately the temporary services of a Physician to undertake the examination of a large number of employees who will shortly be eligible for inclusion in a superannuation scheme.

The person appointed will be required to give his whole time to the duties and it is expected that the appointment will be for about three months. The work will be carried out in Corporation premises.

The remuneration will be £15 per week.

Applicants must produce evidence of skill and experience as physicians; recently qualified persons should not apply.

Forms of application may be obtained from me and they should be returned in an envelope endorsed "Temporary Physician" so as to reach me not later than Tuesday, the 28th February, 1939.

(Signed) J. E. RICHARDS, Town Clerk.
Guildhall, Nottingham.

Bristol Eye Hospital.

82 Beds. (12 Private Patients.)
(1938) 1232 In-patients. 20,652 Out-patients.

Applications are invited for the post of JUNIOR HOUSE SURGEON. Salary £100 per annum. Senior post available after six months. Vacant 1st April, 1939.

Suitable experience for D.O.M.S.

Applications, stating age and qualifications, &c., with three recent testimonials, to reach the undersigned by 1st March next.

D. M. BABER, Secretary and House Governor.

County Borough of Croydon.

PUBLIC HEALTH DEPARTMENT.

APPOINTMENT OF ASSISTANT MEDICAL OFFICER FOR OBSTETRICS.

Applications are invited from qualified Medical Men and Women for the post of Assistant Medical Officer for Obstetrics. Candidates must have had practical hospital experience in Gynæcology and Obstetrics, and of ante-natal and post-natal clinics.

The appointment will be for twelve months and the salary will be £350 per annum, with board, residence, and laundry valued at £140 per annum. The successful candidate will have quarters at St. Mary's Hospital, St. James-road, Croydon.

Opportunities will be given for the successful candidate to study for the Membership of the College of Obstetricians and Gynæcologists.

The officer appointed will be on the staff of the Medical Officer of Health, and work under his administrative supervision.

Application forms may be obtained from the Medical Officer of Health, Town Hall, Croydon, on receipt of a stamped addressed foolscap envelope, and should be returned to him not later than 11 A.M. on Monday, 27th February, 1939, together with copies of three testimonials of recent date.

Canvassing in any form is prohibited.

E. TABERNER, Town Clerk.
Town Hall, Croydon, 9th February, 1939.

Prifysgol Cymru, University of Wales.

WELSH NATIONAL SCHOOL OF MEDICINE.

The following scholarships will be awarded by the University of Wales in the session 1939–40, if suitable candidates are forthcoming:—

The MRS. JOHN NIXON RESEARCH SCHOLARSHIP of the value of £150.

The LORD MERTHYR RESEARCH SCHOLARSHIP of the value of £200.

The EWEN MACLEAN RESEARCH SCHOLARSHIP of the value of £150.

Candidature for the Mrs. John Nixon Research Scholarship and the Lord Merthyr Research Scholarship is limited to graduates of the University of Wales.

Applications for any of the above-named Scholarships must reach the Registrar, University Registry, Cathays Park, Cardiff, not later than September 1st, 1939.

Information regarding the conditions of tenure of the Scholarships may be obtained from the Registrar.

The Chester Royal Infirmary.

(225 Beds.)

Applications are invited for the following appointments. Duties to commence on the 1st April.

HOUSE PHYSICIAN (Male). The appointment is approved for the purposes of the M.D. Examinations of the University of London.

HOUSE SURGEON (Male). The appointment is approved in connexion with the M.S. (London University) and F.R.C.S. (Eng.) Examinations.

HOUSE SURGEON (Male) to the EAR, NOSE, AND THROAT, AND GYNÆCOLOGICAL DEPARTMENTS. The appointment is approved for the purposes of the D.L.O. Examination.

Salary £150 per annum, with board, lodging, and laundry.

Application list closes 8th March, 1939.

Application forms may be obtained from:—

W. H. GRACE, M.D., M.R.C.P., Hon. Secretary, Medical Committee.

West Riding County Council.

EDUCATION DEPARTMENT.

Applications are invited from qualified Women for appointment as SUPERVISOR OF MEALS. The duties will be mainly connected with the provision of meals at Children's Meals Centres and at Elementary Schools and other educational institutions, and the person appointed will be required to advise on questions of diet, staffing, equipment, and general organisation. Candidates should have experience in large scale catering and expert knowledge of dietetics, and should give proof of administrative and organising ability. An appropriate degree will be a recommendation. Salary £300–£15–£400. The post is pensionable. Married women are ordinarily ineligible.

Application forms, with further particulars and conditions of appointment, to be obtained from the Education Officer, County Hall, Wakefield, to whom they should be returned not later than 6th March, 1939.

Birmingham and Midland Hospital for WOMEN.

HOUSE SURGEON (Man or Woman) wanted for six months from 1st April, 1939. Salary to be at the rate of £100 per annum.

Applications, with full particulars and copies of testimonials, to be sent not later than 4th March to HUGH C. ASTON, 45, Newhall-street, Birmingham, 3.

Salford Royal Hospital.

(256 Beds.)

Applications are invited from registered candidates (Male) for:—

HOUSE SURGEON
CASUALTY HOUSE SURGEON

for six months from April 1st. Salary £125 per annum.

Forms of application, obtainable from the undersigned, should be delivered on or before February 28th.

By Order of the Board,
H. B. SHELSWELL, General Superintendent and Secretary.
17th February, 1939.

North Riding Infirmary,

MIDDLESBROUGH.
(General Hospital. 143 Beds. Three Residents.)

Applications are invited for the post of SENIOR HOUSE SURGEON for a period of six months, renewable (the present Casualty Officer is an applicant), duties to commence 1st March, 1939. Salary £175 per annum, with board, residence, and laundry. Candidates, who must be male, unmarried, and of British nationality, are asked to state whether they are prepared to apply for the post of Casualty Officer (salary £150 per annum) in the event of the present Casualty Officer being appointed.

Applications, stating age, qualifications, and experience, together with copies of three recent testimonials, should be sent to the undersigned forthwith.

GERALD A. KENYON, Secretary-Superintendent.

City of Bath.

MEDICAL OFFICER, with adequate Clinical and other experience, wanted for the Council's Poor Law Infirmary and Institution. The practitioner appointed will be on the staff of the Medical Officer of Health and will be required to undertake certain other duties associated with the Health Department. The successful candidate must pass a medical examination for Superannuation purposes. He must live near the Institution.

Salary £500 (or more, according to experience), rising by annual increments of £25 to £700.

Further information, conditions of service, and form of application may be obtained from the undersigned, to whom applications must be delivered not later than 1st March, 1939.

JAMES F. BLACKETT, Medical Officer of Health.
Sawclose, Bath.

Macclesfield General Infirmary.

(General Hospital. 100 Beds.)

Wanted at once SECOND HOUSE SURGEON. The appointment is for six months. Salary £150 per annum, with board and residence. Candidates must have had experience in the administration of Anæsthetics.

At the end of six months, if satisfactory, will be eligible for the position of Senior Resident Surgeon.

Applications, with copies of three testimonials, should be sent to the undersigned.

J. N. A. BRISCOE, Secretary.

City of Leicester.

RESIDENT MEDICAL OFFICER.

The Health Committee of the City of Leicester invite applications for the position of Resident Medical Officer (Male) at the CITY GENERAL HOSPITAL for a period of six months, renewable, if satisfactory, for a further six months. The successful candidate will be required to commence as soon as possible. Preference will be given to those with, or reading for higher qualifications.

The Hospital is a modern building with 550 beds, four Resident Medical Officers, and one Deputy Medical Superintendent. The work that will be required of this Resident Medical Officer will be chiefly medical; there may, however, be some general surgical work. Salary £300 per annum, together with full residential emoluments.

Further particulars of the appointment may be obtained from the undersigned, and applications (on forms supplied), accompanied by copies of three recent testimonials, must be received not later than 1st March, endorsed "R.M.O." addressed to the undersigned.

E. K. MACDONALD, Medical Officer of Health.
Health Department, Grey Friars, Leicester, 17th February, 1939.

The University of Manchester.

Applications are invited for the post of LECTURER IN HUMAN PHYSIOLOGY. Duties to commence September 29th, 1939. Candidates must possess a registrable medical qualification. Last date for application March 6th.

Further particulars may be obtained from the Registrar, the University, Manchester, 13.

Devonshire Royal Hospital, Buxton.—

Applications are invited for the post of ASSISTANT HONORARY PHYSICIAN.

A. PRESTON TURNER,
General Superintendent and Secretary.

Manchester Royal Infirmary.

POST-GRADUATE DEMONSTRATIONS will be given by members of the Honorary Staff on Medical, Surgical, and Special subjects on Fridays, beginning FRIDAY, 24th FEBRUARY, and ending FRIDAY, 9th JUNE. Demonstrations begin at 4.15 P.M. and are free. Details may be obtained from the Secretary for the Post-graduate Demonstrations.

Manchester Royal Infirmary.

CHIEF ASSISTANT TO THE NEURO-SURGICAL DEPARTMENT.
(Non-resident.)

The Board of Management invite applications for the above appointment.

Candidates should be Fellows of the Royal College of Surgeons of England.

The duties require attendance at the Infirmary on seven half days per week. The appointment is for one year, renewable for a further period, subject to the provisions of the Bye-laws as to notice. Salary £350 per annum.

Further information may be obtained from the undersigned to whom applicants must send fifteen copies of their application and testimonials by Wednesday, 22nd February, 1939.

By Order,
F. J. CABLE, General Superintendent and Secretary.
6th February, 1939.

The Children's Hospital, Sheffield.

(157 Beds.)

Applications are invited for the post of HOUSE PHYSICIAN vacant 1st March, 1939.

The appointment is for six months. Salary £100 per annum with board, residence, and laundry. Candidates (Male and unmarried) who must possess registered qualifications, should forward applications stating age, nationality, &c., together with copies of three recent testimonials to the undersigned.

T. H. G. GARTLAND, Superintendent and Secretary.

Hove General Hospital, Hove.

(53 Beds.)

Applications are invited for the appointment of JUNIOR RESIDENT MEDICAL OFFICER (Male). Salary £120 per annum, with board, quarters and laundry. The successful applicant will be eligible to apply for the Senior post when a vacancy occurs which may be quite shortly.

Applications, stating age and qualifications, together with three recent testimonials, should be forwarded to the undersigned.

K. C. BOOKER, Secretary-Superintendent.

Swansea General and Eye Hospital.

(336 Beds.)

HOUSE PHYSICIAN wanted. Gentleman, single. Salary £150 per annum, with board, residence, and laundry. Appointment for six months. Duties to commence 1st March.

Applications, stating age, nationality, qualifications, and experience, together with copies of three recent testimonials, to be forwarded to the undersigned.

O. C. HOWELLS, Secretary-Superintendent.

Ancoats Hospital, Manchester, 4.

CASUALTY OFFICER required to commence duty 19th March.

Appointment for twelve months. Salary £150 per annum, with board, residence, laundry, &c. Preference will be given to applicants who have passed the Primary Fellowship Examination of one of the Royal Colleges of Surgeons. The successful applicant will do duty for the Resident Surgical Officer at alternate week-ends and other scheduled times.

Applications, stating age, qualifications, experience, and full particulars of previous appointments to be forwarded to the undersigned on or before Wednesday, 1st March, together with copies of three recent testimonials.

By Order of the Board,
HERBERT J. DAFFORNE,
General Superintendent and Secretary.

City of Stoke-on-Trent.

MENTAL DEFICIENCY ACTS, 1913–1938.
STALLINGTON HALL CERTIFIED INSTITUTION, BLYTHE BRIDGE, STAFFS.

Applications are invited for the post of MEDICAL SUPERINTENDENT (Male). Salary £800 per annum, rising to a maximum of £950 per annum, plus house (unfurnished), fuel, light, and laundry valued for the purposes of the Superannuation Acts at £150 per annum, the appointment to be terminable by three months' notice on either side.

Applications, stating age, qualifications, and experience, together with copies of three recent testimonials and marked "Medical Superintendent—Stallington Hall," to be forwarded to the undersigned not later than the 3rd March, 1939.

E. B. SHARPLEY, Town Clerk.
Town Hall, Stoke-on-Trent.

Kettering and District General HOSPITAL. (108 Beds.)

Applications are invited for the post of HOUSE PHYSICIAN (Male).

Salary £150 per annum, with board, residence, and laundry. Candidates must be fully qualified and registered.

The appointment is for six months, with eligibility for a further period.

Applications, stating age, nationality, and qualifications, together with copies of three testimonials, to be sent to the undersigned as soon as possible.

G. W. JACKSON, Secretary-Superintendent.

Beckett Hospital and Dispensary, BARNSLEY. (154 Beds.)

HOUSE PHYSICIAN (Male) required immediately. Applicants must be registered and preference will be given to those who have held a previous hospital post, and having pathological experience.

Salary £150 per annum, with board, residence, and laundry.

Applications, together with testimonials, should be sent to the undersigned.

ARTHUR L. BOURNE, Secretary-Superintendent.

14th February, 1939.

Royal Liverpool Babies' Hospital, WOOLTON.

Required, RESIDENT MEDICAL OFFICER for the above Hospital. Appointment commencing April 1st. Salary at the rate of £125 per annum for the first six months, £150 per annum for the second six months.

Applications, with copies of testimonials, to be sent to the Honorary Secretary of the Medical Board, 9, Copperas Hill, Liverpool, 3, on or before Monday, March 6th.

St. Anne's Skin and Cancer Hospital, Northbrook-road, DUBLIN.

Applications are invited for the post of ASSISTANT RADIOLOGIST—Non-Resident.

The appointment is a full-time one, and is for a period of one year in the first instance, subject to two months' notice on either side.

Salary from £300–£400, dependent on experience. D.M.R.E. preferred.

Applications, accompanied by copies of recent testimonials, stating age, qualifications, and previous experience, to be sent to the Medical Superintendent not later than March 7th, 1939.

Clayton Hospital and Wakefield GENERAL DISPENSARY, WAKEFIELD.

RESIDENT SURGICAL OFFICER required 1st April, 1939. Salary £250 per annum, plus usual emoluments. Appointment for six months (renewable).

Applicants must be Male, British and single. Previous Hospital experience essential.

Applications accompanied by copies of three testimonials to be sent to the undersigned by the 6th March, 1939.

T. F. W. MACKEOWN, Superintendent and Secretary.

Hertford County Hospital. (171 Beds. 3 Residents.)

Applications are invited for the post of HOUSE PHYSICIAN (Male).

Salary £150 per annum, with board, residence and laundry. Duties to include Casualty and to commence March 18th. The appointment is for six months in the first instance.

Applications, together with copies of three recent testimonials, should be forwarded to the undersigned not later than 6th March, 1939.

PERCY G. BROOKS, Secretary.

Walsall General Hospital.

The Committee are prepared to receive applications from Men for the post of RESIDENT SURGICAL OFFICER. Salary £300 per annum. Candidates with Fellowship, or Primary Fellowship preferred. The Hospital will shortly contain 175 beds and the Surgical experience is excellent.

Applications, stating age, with copies of three recent testimonials, to be sent at once to the undersigned.

WALTER FRANCOMBE, House Governor.

4th February, 1939.

Oldham Royal Infirmary. (183 Beds. 4 House Surgeons.)

HOUSE SURGEON required for a period of six months.

Salary at the rate of £175 per annum, with board, residence and laundry.

Applications, stating age, experience, and qualifications, together with copies of three recent testimonials must be forwarded to the undersigned not later than the 25th February, 1939.

THOS. H. ODDY, Secretary-Accountant.

County of Dorset.

APPOINTMENT OF ASSISTANT COUNTY MEDICAL OFFICER.

The Dorset County Council invite applications from registered Medical Practitioners with at least three years experience since qualification, not exceeding forty years of age, for the appointment of Male Assistant County Medical Officer.

Salary commencing at £500 per annum, rising (subject to satisfactory service) to £700 by annual increments of £25, together with travelling and out-of-pocket expenses according to the County Scale.

The duties will include the treatment of patients at the County Institution for Pulmonary Tuberculosis and, therefore, a recent practical experience of artificial pneumothorax and chest radiography is essential. Experience in Venereal Diseases and the possession of the D.P.H. will be considered important additional qualifications.

The candidate appointed will be required to reside at Parkstone, to devote his whole time to the service of the County; to act under the direction of the County Medical Officer and perform such duties in connexion with the Council's Health Services as may be allotted to him, including such assistance to the Clinical Tuberculosis Officer as may be necessary.

The post is designated for superannuation purposes, and the successful candidate will be required to pass a medical examination.

Applications on a prescribed form, which may be obtained from me on receipt of a stamped, addressed foolscap envelope, must be forwarded so as to be received not later than Monday, 6th March, 1939.

Canvassing in any form will be a disqualification.

C. P. BRUTTON, Clerk of the County Council.

County Offices, Dorchester, 14th February, 1939.

The Royal Army Medical Corps

ASSOCIATION, 85, Eccleston-square, S.W.1 (Telephone: Victoria 2722), supplies qualified Dispensers, Book-keepers, Laboratory Assistants, Sanitary Assistants, Male Nurses, Mental and Special Treatment Orderlies, Dental Clerk Orderlies, Porters, Caretakers, &c., without charge to respective employers.

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Assistant required with a view to

Partnership in a Radiological Practice in South Africa. Commencing salary £1200 to £1500 according to experience, but may be increased for exceptional qualifications. A minimum of 2 to 3 years' diagnostic experience is essential. Age under 35.—Address, No. 557, THE LANCET Office, 7, Adam Street, Adelphi, W.C.2.

The National University of Ireland

APPOINTMENTS COMMITTEE can recommend suitably qualified Medical Graduates as Locum Tenentes or Assistants. Medical practitioners who require such services should apply, stating all particulars, to the Secretary, Appointments Committee, N.U.I., 86, St. Stephen's Green, Dublin. Telephone Dublin 51793.

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Instrument Makers in Provinces, Educated MAN experienced in all classes Surgical Appliances and Fitting.—Address, stating experience and salary required, to No. 556, THE LANCET Office, 7, Adam-street, Adelphi, W.C.2.

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Room, bath, and table d'hôte breakfast, 8s. 6d.

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accommodation for private patients (mental, neurasthenic, invalid, &c.) may have, post free, illustrated BOOKLET describing residences, &c., of numerous colleagues in all parts—town, country, and seaside—who receive such patients.—Apply, Manager, British Medical Bureau, Tavistock House South, Tavistock-square, London, W.C.1.

St. Leonards-on-Sea.—Detached House

for Sale. Excellent position for Doctor, Dentist, Nursing-home, &c. Full particulars from OWNER, 33, Kings-road, St. Leonards-on-Sea.

Part-time well-furnished Room in Harley-street, very quiet, suitable for Physician or Psychologist; also large first-floor ROOM, unfurnished, full time, would consider two men sharing. Lift. Constant hot water, &c.—Address, No. 559, THE LANCET Office, 7, Adam-street, W.C.2.

Devonshire Place.—Excellent CONSULTING SUITE especially suitable for X Rays. Large consulting-room, two dressing cubicles, secretary's room and darkroom. Use of waiting-room and service. Moderate rent.—Recommended by BEDFORD & CO., 10, Wigmore-street, W.1.

Bentinck Street (corner of Welbeck Street).—Well-appointed CONSULTING SUITES each of two rooms and private w.c are now available for letting at very reasonable rentals. Property recently modernised and equipped with lift. C.H. C.H.W. Attendance and cleaning provided.—Full particulars, plans, and orders to view.—LEY CLARK & PARTNERS, 3A, Wimpole-street, London, W.1. Langham 1095.

Wimpole Street.—Really attractive HOUSE of character with large paved old-world garden, quietude, and morning sunshine. Garage at nominal rent. Features of the house include beautiful mahogany doors, marble and parquet floors, linenfold panelling. 6 bedrooms, 2 bathrooms, 4 reception rooms, and really light offices. Lease 992 years at a ground rent of only £75 per annum, or would be let. Agents: LEY CLARK & PARTNERS, 3A, Wimpole-street, W.1. Langham 1095 (3 lines).

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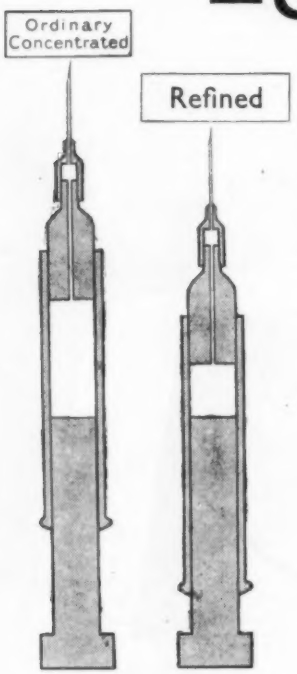

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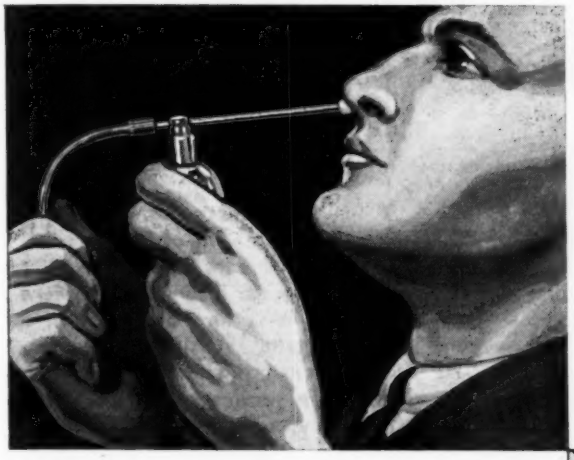

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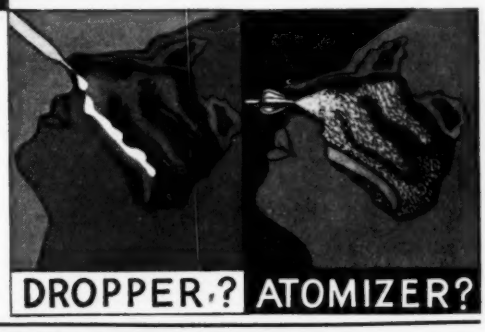

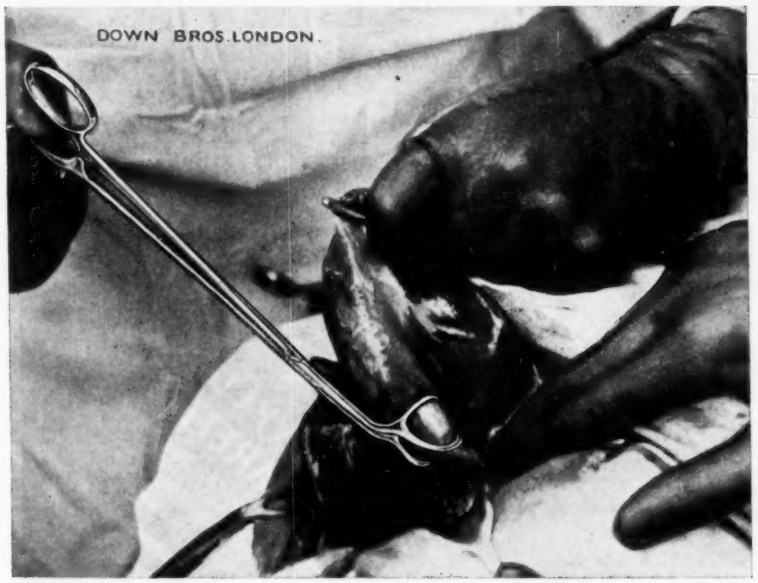

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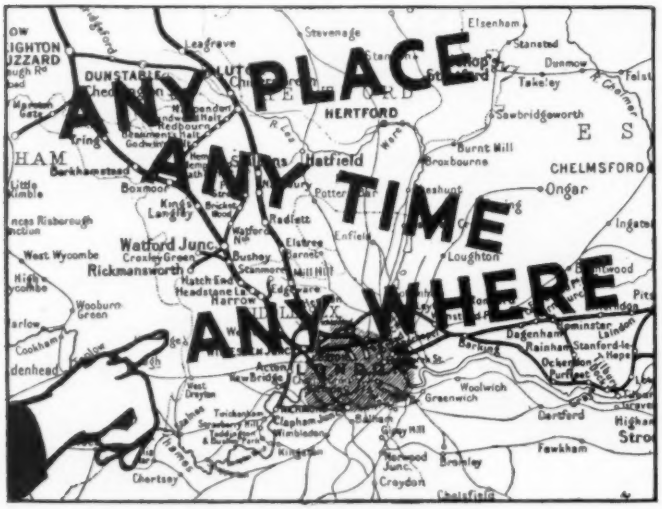

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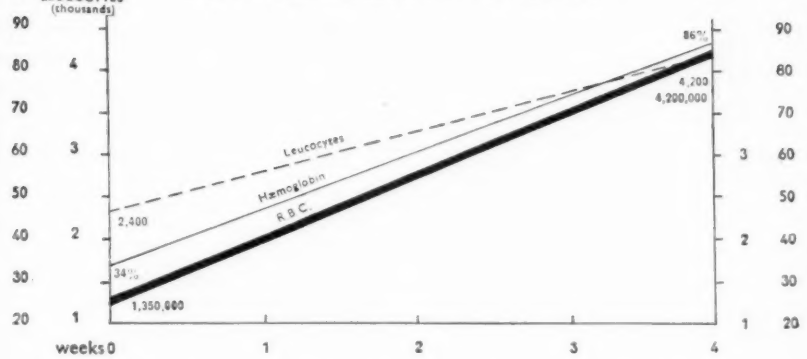

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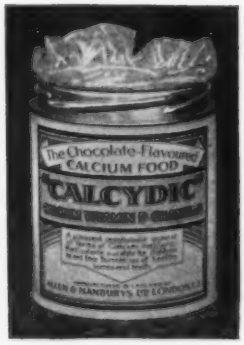

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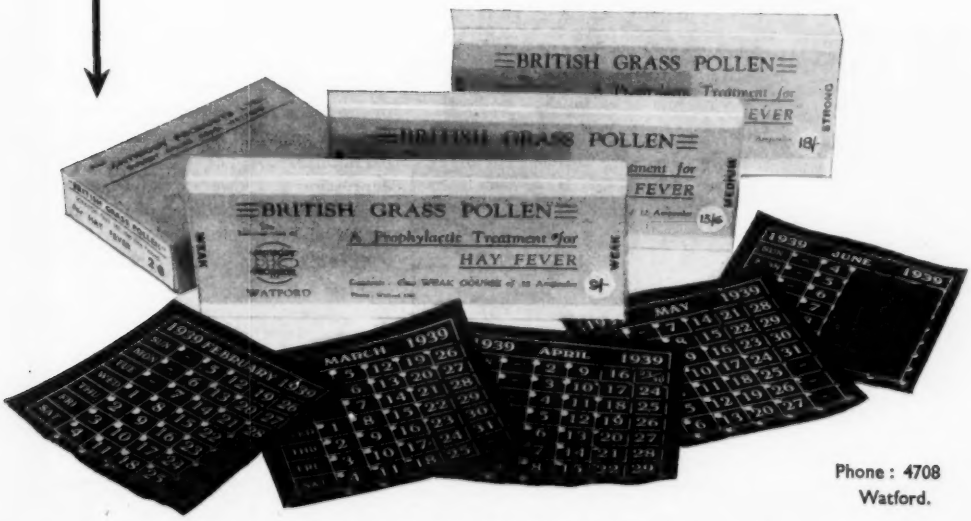

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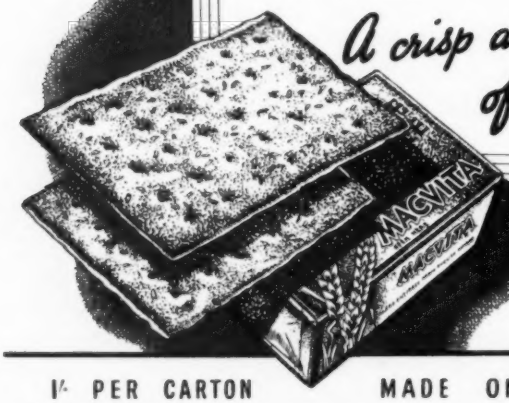

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Nervous dyspepsia connotes hypersecretion. This causes flatulence, sour stomach, discomfort and perhaps pain. "Alocol" is the ideal gastric sedative since its action is prompt and lasting and entirely free from harmful effects.

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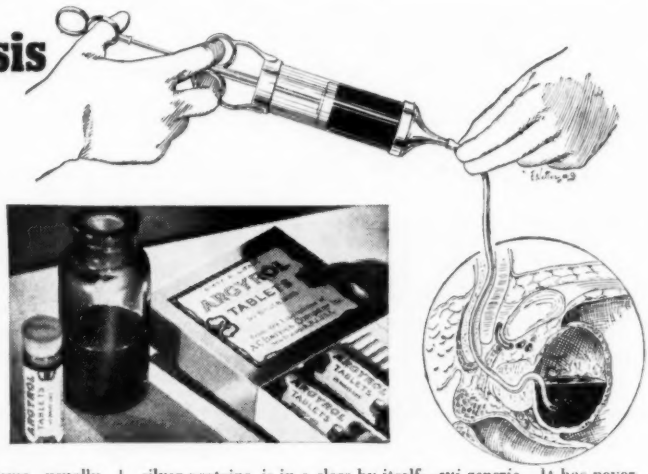

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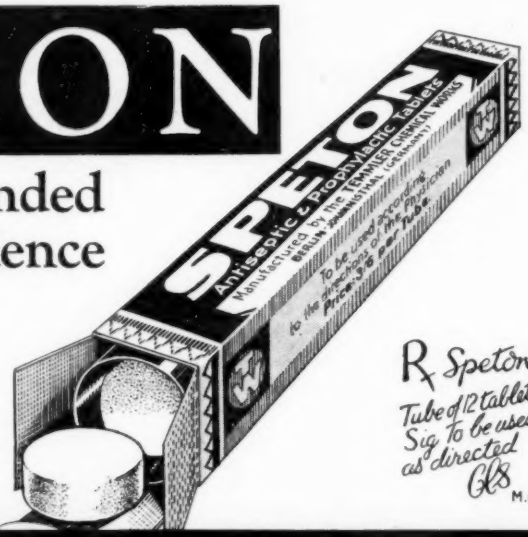

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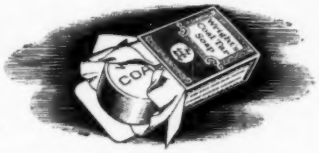
The principles introduced by Lister into the operating theatre did much more than open the way to the marvels of modern aseptic surgery. They were gradually carried into the home itself and brought about an entirely new conception of cleanliness and hygiene—particularly in regard to the use of soap and water.

Today, the importance of germ-free cleanliness is appreciated by the vast majority of the lay public, and it is being increasingly recognised that one of the simplest and most effective ways of combating the danger of infection in everyday life is by the regular use of a reliable antiseptic soap, capable of removing germ-laden dirt deeply ingrained in the pores.

Wright's Coal Tar Soap has enjoyed the confidence of the medical profession and a discriminating public for over 70 years on account of the high quality of the materials used in its manufacture, and its proved ability to safeguard health. Containing 'Liquor Carbonis Detergens,' the valuable antiseptic and detergent used and recommended by leading dermatologists, Wright's has really substantial antiseptic and anti-pruritic qualities. It is the only toilet soap to hold the Blue Seal of Merit—the highest award of the Royal Institute of Public Health and Hygiene.



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(*b*) Tea tannin is a different substance from the tannic acid of the Pharmacopœia, which is a Pyrogallic tannin, and the two should not be confused.

(*c*) Clinical experiments have shown that the action of tea tannin is very much milder than that of tannic acid, and the different composition of the two tannins is proved by the fact that the tannic acid of the Pharmacopœia is about 25 times stronger as an acid than tea tannin.

(*d*) Many common beverages besides tea contain similar tannins.

(*e*) A thorough investigation reported in "The Analyst" (1936, Lxi, 310) could find no tea on the market which was free from tannin. If there were any such teas, they would be almost entirely tasteless.

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Cadmos, represented as a youthful figure with a Hydria, receiving from Athene the stone wherewith to kill the Serpent.

for sick as well as normal babies

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"As to the kind of extra carbohydrate to be added, whether lactose or maltose, I believe dextri-maltose to be better in general in cases of fat indigestion (infantile atrophy)."—*C. H. Dunn: The Hygienic and Medical Treatment of Children, Southworth Co., Troy, New York, 1917, V. 1, p. 418.*

In discussing the treatment of decomposition Feer says: "The period of repair may be shortened by giving suitable additional food; the best, probably, being buttermilk to which carefully regulated proportions of dextrin and maltose preparations or malt soup are added."—*E. Feer: Text-Book of Pediatrics, J. B. Lippincott Co., Phila., 1922, p. 284.*

In the treatment of infantile atrophy Fischer recommends the following: "The carbohydrate should be increased by gradual addition of dextri-maltose.

"Malt soup or dextrimaltose (Mead's) should be added in teaspoonful or more doses to each feeding until the point of carbohydrate tolerance is reached."—*L. Fischer: Diseases of Infancy and Childhood, F. A. Davis Co., Phila., 1925, V. 1, p. 285.*

Concerning the treatment in the case of a premature infant Fischer states: "Dried milk with water was given, which later was changed to whole milk, 14 ounces; water, seven ounces, and dextrimaltose No. 1, one and one-half ounces. Seven feedings of three ounces each every three hours was given. The above feeding was retained. The infant gained eight ounces at the end of the first week."—*L. Fischer: Clinical notes in a series of premature infants, Arch. Pediat. 44:227-231, April, 1927.*

Grulee, in discussing the treatment of decomposition says: "As a rule it is best to start with 2 to 2½ or 3 ounces of albumin milk to the pound weight in 24 hours; the sugar to be added is in the form of a maltose-dextrin mixture. One should never delay too long in adding this."—*C. G. Grulee: Infant Feeding, W. B. Saunders Co., Phila., 1922, p. 265.*

Referring to the hypotrophic infant Herrman writes: "In mild cases, the addition of dextrimaltose instead of cane or milk sugar may be sufficient to obtain a gain in weight."—*C. Herrman: The treatment of nutritional disorders in artificially-fed infants, New York M. J. 114:158-160, August, 1921.*

In discussing artificial feeding in athrepsia Hess states: "The carbohydrates are usually added in a slowly fermentable form, such as the maltose and dextrin compounds, which are usually started by the addition of four grams per kilogram (1/15 ounce per pound) and increased until eight grams or more per kilogram (¼ ounce per pound) of body weight are added."—*J. H. Hess: Feeding and the Nutritional Disorders in Infancy and Childhood, F. A. Davis Co., Phila., 1928, p. 278.*

Concerning the treatment of marasmus Hill says: "When the stools have become smooth and salve-like, carbohydrate, in the form of dextrimaltose, may be gradually added up to the limit of tolerance."—*L. W. Hill: Practical Infant Feeding, W. B. Saunders Co., Phila., 1922, p. 281.*

"A spasmophilic baby on bottle feeding should receive a limited amount of milk—a pint, or at the most 24 ounces in the 24 hours—to which cereal gruel and some form of sugar is added, preferably one of the malt dextrin preparations; also the early addition of other foods than milk to the baby's diet."—*M. Jampolis: Infantile spasmophilia, Interstate M. J. 25:652, Sept., 1918; abst. Arch. Pediat. 35:691, Nov. 1918.*

With reference to the treatment of diarrhea Lust writes: "After several days, 2% to 3% of a maltose-dextrin preparation may be added (Dextri-Maltose). This is preferable to the easily fermentable lactose or cane sugar."—*F. Lust: The Treatment of Children's Diseases, J. B. Lippincott Co., Phila., 1930, p. 145.*

"The treatment of artificially fed children in the first of these groups consists in putting them on a low fat dietary, and giving them carbohydrate in the form of one of the less fermentable sugars—e.g., dextrimaltose."—*L. G. Parsons: Wasting disorders of early infancy, Lancet, 1:687-694, April 5, 1924.*

Pearson and Wyllie in discussing the treatment of milder cases of inanition say: "Regulation of this disturbed organismal balance is obtained by the addition of carbohydrates, while fat and casein are reduced. For this purpose dextrimaltose and flour are better than the ordinary sugars, since they are more slowly absorbed and have greater efficacy in their powers of controlling the flora in the large intestine."—*W. J. Pearson, and W. G. Wyllie: Recent Advances in Diseases of Children, P. Blakiston's Son & Co., Phila., 1930, p. 116.*

Regarding the treatment of the marantic infant Raue states: "After the intolerance to sugar has been overcome a carbohydrate, preferably Dextri-maltose, may be added."—*C. S. Raue: Diseases of Children, Boericke & Tafel, Phila., 1922, p. 427.*

In discussing the treatment of atrophy Thursfield and Paterson, state: "If the baby continues to improve, the next step in the treatment is to add to the milk one of the less fermentable carbohydrates, such as dextrimaltose . . . —*H. Thursfield and D. Paterson: Diseases of Children, William Wood & Co., 1929, p. 105.*

"I also find dextrin-maltose an excellent addition to albumin-milk when the first object of that food has been achieved and a gain in weight is desired; in this way I have succeeded in feeding albumin-milk far beyond the period usually advised, with highly gratifying results."—*F. L. Wachenheim: Infant-Feeding; Its Principles and Practice, Lea & Febiger, Phila., 1915, p. 158.*

"Dextri-maltose has been substituted for lactose not infrequently, when the tolerance for the latter continues low."—*L. H. West: Low fat, high starch evaporated milk feeding for the marasmic baby, Arch. Pediat. 48:189-193, March, 1931.*

"Malt sugar is indicated when others fail to produce a sufficient gain, or when malassimilation of fat is evident."—*O. H. Wilson: The role of carbohydrates in infant feeding, Southern M. J. 11:177, March, 1918; abst. Arch. Pediat. 35:447, July, 1918.*

Mead's Dextri-Maltose No. 1 *(in 1 lb. tins)*	**With 2% sodium chloride, for carbohydrate modification of cow's milk in general infant feeding.**
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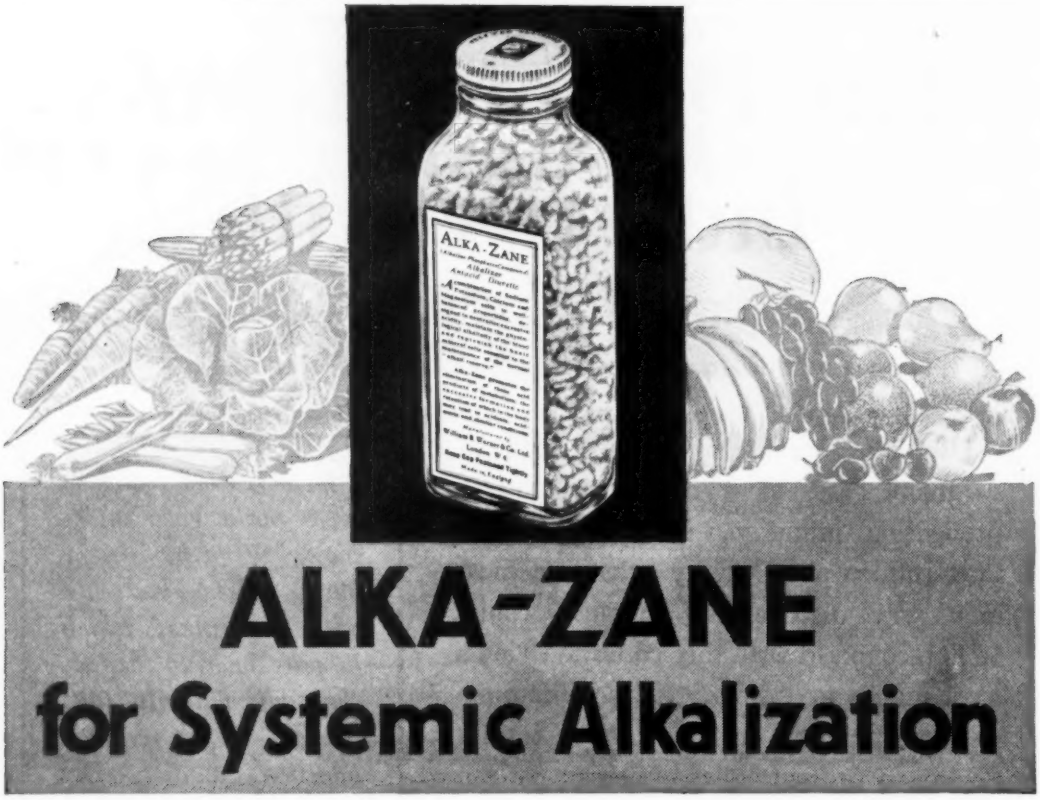

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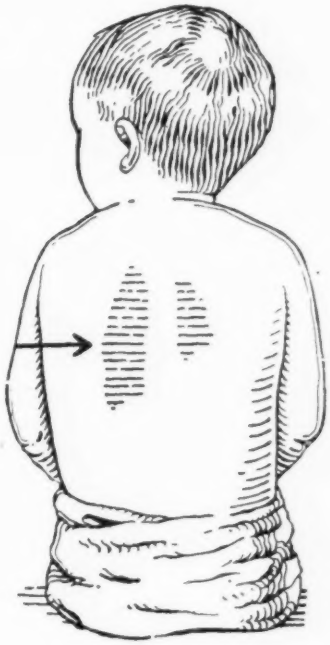

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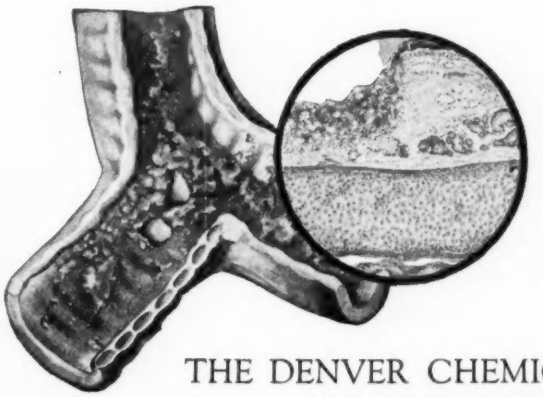

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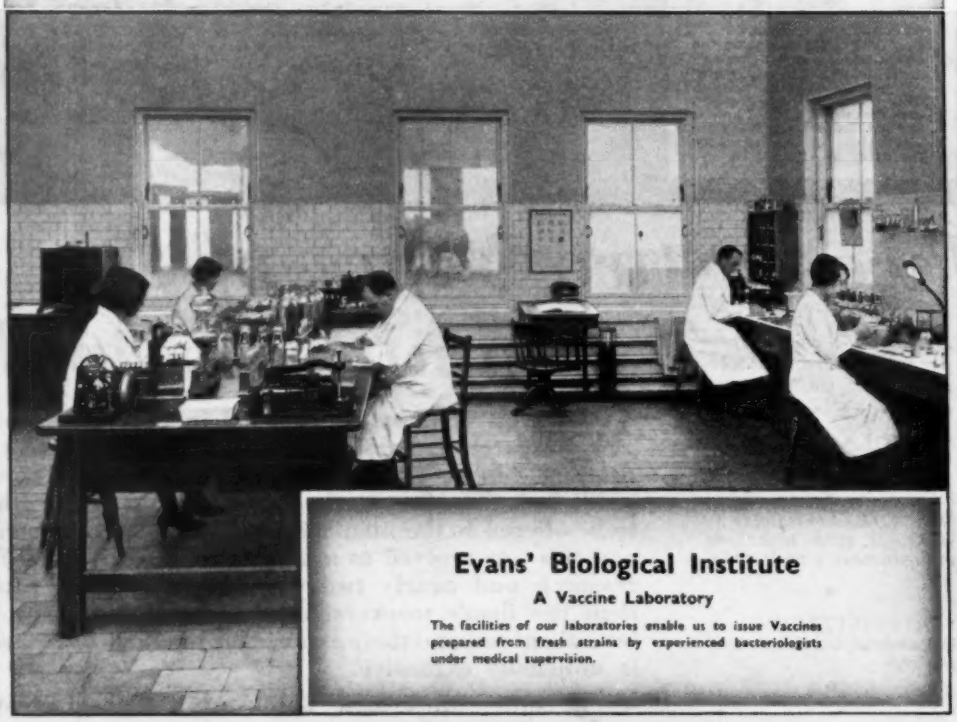

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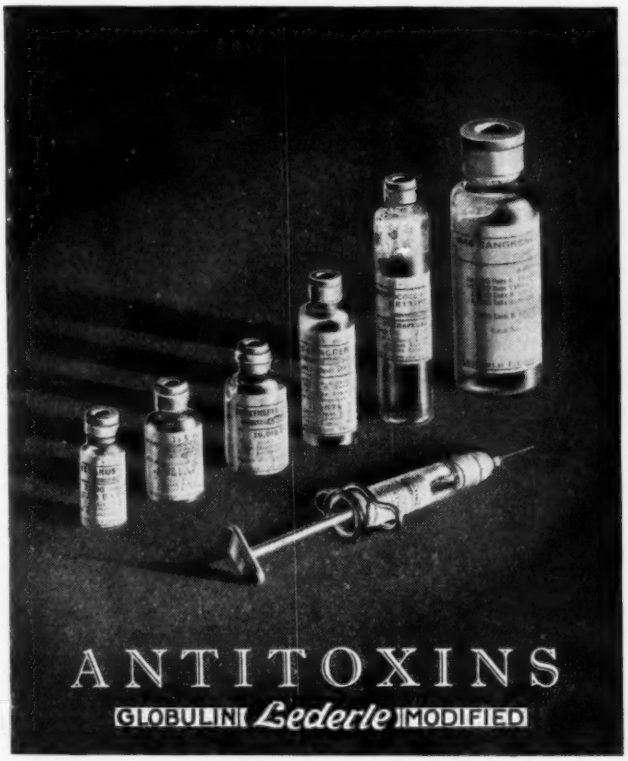

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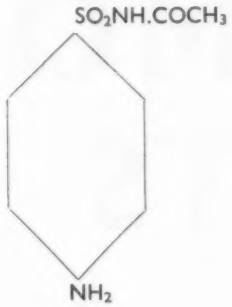

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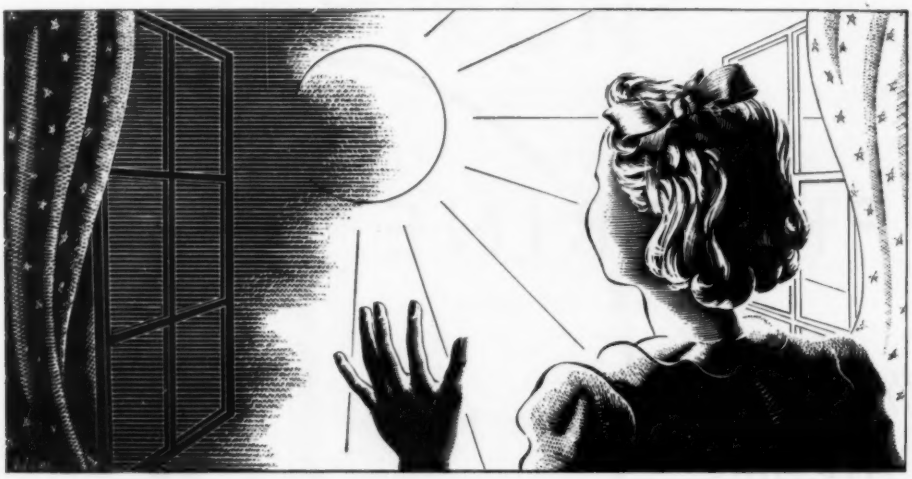


Smoke is Going!

Manchester has revolted against its pall of smoke. As a move towards making Manchester a smokeless city it is proposed to mark out an area in the city in which no smoke shall be emitted.

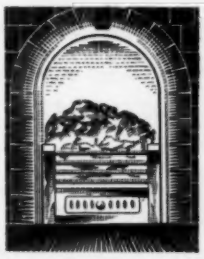
London, too, is taking action. In Whitehall Government offices 7,000 open fire places now burn smokeless fuel. And 94,000 out of the 115,000 tons of fuel burnt in Government offices are now smokeless.

The Leader of the L.C.C., Mr. Herbert Morrison, has said, 'We are seriously considering the possibility of turning London into a smokeless city, at least as far as domestic smoke is concerned.'

Mr. Walter Elliot, Minister of Health, says, 'The development of smokeless fuels could make our cities clean as those of Ancient Greece.'

WHAT YOU CAN DO ABOUT SMOKE

Smoke cannot be banished without *your* help, because 70% of Smoke and Soot comes from *home* chimneys—*your* chimneys. Therefore every smoke making fire that is changed to smokeless fuel is a contribution to clean homes, clean cities, healthier, easier living. Smoke is going, but you must help it go by using the cheap, labour-saving, smokeless fuels — Gas and Coke!



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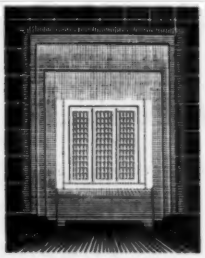

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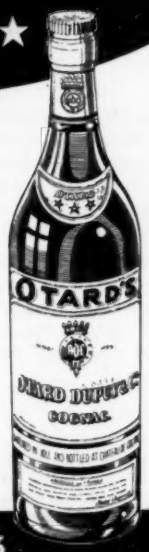

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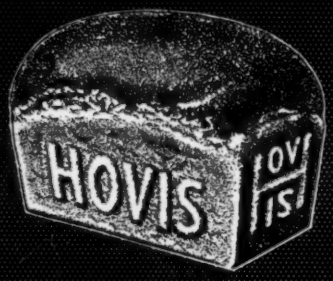

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LONDON HOSPITAL MEDICAL COLLEGE

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The next Course for the Primary F.R.C.S. Examination will begin on Monday, March 6th, 1939.

The Timetable will be as follows:—

ANATOMY.

Professor J. D. BOYD, Dr. W. F. HARPER, the Reader in Anatomy, and Mr. E. C. BUTLER (Hon. Assistant Surgeon to the Hospital) will give a course of Lectures daily at 12 NOON (except Saturdays). Of these lectures Professor Boyd will give 20, Dr. Harper 20, and Mr. Butler 10. In addition there will be at least three demonstrations a week in the Dissecting Room at times to be arranged given by Professor Boyd, Dr. Harper and Mr. F. Stansfield, the Demonstrator of Anatomy.

PHYSIOLOGY AND HISTOLOGY.

Professor D. T. HARRIS will give two Special Lectures a week to gentlemen attending the Course on Mondays and Wednesdays at 9.40 A.M. These lectures, like other lectures of the Course, are confined to students working for the Primary Fellowship Examination.

Dr. CHARLES REID, the Reader in Physiology, will give a lecture-demonstration daily at 2 P.M. (except Saturdays).

Dr. W. A. M. SMART, the Lecturer in Histology, will give a lecture-demonstration once a week during the Course.

Members of the Course are also advised to attend the systematic lectures given by Professor HARRIS to Second M.B. candidates in their final year on Tuesdays, Thursdays and Fridays at 9.40 A.M.

There will be no lectures between April 7th and 15th, inclusive.

The Fee for the Course is 15 guineas.

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The Course will be open to Men and Women Graduates. The fee for the Course will be £15 15s.

Further information may be obtained from the Dean, Guy's Hospital Medical School, London Bridge, S.E.1.

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MARCH 1939		
6th.	Introduction: A General Survey of War Injuries and Medical Arrangements.	Colonel J. M. WEDDELL, F.R.C.S., A.M.S.
7th.	General Scheme for Dealing with Wounded: (a) The Effects of Aerial Warfare. (b) Expectation of Casualties. (c) Protection of Buildings and Personnel. (d) Organisation of Medical Units. (e) Recording, Labelling, and Sorting of Cases.	Colonel E. M. COWELL, D.S.O., T.D., F.R.C.S., A.M.S. (T.A.).
8th.	Prevention and Treatment of Shock. Preparation of Cases for Transport.	Colonel E. M. COWELL, D.S.O., T.D., F.R.C.S., A.M.S. (T.A.).
9th.	Blood Transfusion	Dr. JANET M. VAUGHAN, D.M., M.R.C.P.
10th.	Common Infections of Wounds: Tetanus, Gas Gangrene, &c.	Mr. C. H. FRANKAU, C.B.E., D.S.O., M.S., F.R.C.S.
13th.	General Principles in the Treatment of Wounds. Classification of Cases and Surgical Treatment at Casualty Clearing Station.	Mr. G. GORDON-TAYLOR, O.B.E., M.S., F.R.C.S., F.R.A.C.S.
MARCH 1939		
14th.	Wounds of the Chest ..	Professor G. E. GASK, C.M.G., D.S.O., F.R.C.S., F.A.C.S.
15th.	Wounds of the Abdomen and Genito-urinary System.	Mr. G. GORDON-TAYLOR, O.B.E., M.S., F.R.C.S., F.R.A.C.S.
16th.	Wounds of the Abdomen and Genito-urinary System (*continued*).	Mr. G. E. NELIGAN, M.C., F.R.C.S.
17th.	Injuries of the Lower Limb..	Mr. ST. J. D. BUXTON, F.R.C.S.
20th.	Injuries of the Upper Limb and General Principles in the Treatment of Joint Injuries.	Mr. C. H. FRANKAU, C.B.E., D.S.O., M.S., F.R.C.S.
21st.	Injuries to Nerves and Vessels	Mr. P. H. MITCHINER, C.B.E., T.D., M.S., F.R.C.S.
22nd.	Amputations	Mr. C. MAX PAGE, D.S.O., M.S., F.R.C.S.
23rd.	Head Injuries	Mr. G. JEFFERSON, M.S., F.R.C.S.
24th.	Recent Experience in the War in Spain.	Dr. A. E. TUDOR HART, M.R.C.S., L.R.C.P.

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Open to all qualified Practitioners.

Full particulars from the Dean or Secretary.

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By order of the President.

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Applications by letter should be sent not later than 13th March to the Secretary, Central Midwives Board, 23, Great Peter-street, Westminster, S.W.1, from whom further information can be obtained.

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This Institution is exclusively for the reception of a limited number of PRIVATE PATIENTS of both sexes, of the UPPER and MIDDLE CLASSES, at moderate rates of payment. It is beautifully situated in its own grounds, on an eminence a short distance from Nottingham, and commands an extensive view of the surrounding country; and from its singularly healthy position and comfortable arrangements affords every facility for the relief and cure of those mentally afflicted. Voluntary and Temporary Patients received. Occupational Therapy. For terms, &c., apply to the Medical Superintendent.

Telephone: 64117 Nottingham.

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A PRIVATE HOME for the treatment of Nervous and Mental Disorders in both sexes. Situated in nine acres of Pleasure Grounds.

Voluntary, Temporary, and Certified Patients received.

For further particulars apply—
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Ladies suffering from all forms of MENTAL ILLNESS are received for treatment, on modern lines, as Voluntary, Temporary or Certified Private Patients at the Hill End Hospital. Convalescent or mild cases can be treated in a delightful country mansion, with extensive grounds, known as

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FEES TWO TO FOUR GUINEAS PER WEEK.

For further particulars apply to the Medical Director, W. J. T. KIMBER, L.R.C.P., D.P.M.

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FOR NERVOUS AND MENTAL DISORDERS,

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This Registered Hospital is situated in 130 acres of park and pleasure grounds. Voluntary patients, who are suffering from incipient mental disorders or who wish to prevent recurrent attacks of mental trouble; temporary patients, and certified patients of both sexes are received for treatment. Careful clinical, bio-chemical, bacteriological, and pathological examinations. Private rooms with special nurses, male or female, in the Hospital or in one of the numerous villas in the grounds of the various branches can be provided.

WANTAGE HOUSE

This is a Reception Hospital in detached grounds with a separate entrance, to which patients can be admitted. It is equipped with all the apparatus for the complete investigation and treatment of Mental and Nervous Disorders by the most modern methods; insulin treatment is available for suitable cases. It contains special departments for hydrotherapy by various methods, including Turkish and Russian baths, the prolonged immersion bath, Vichy Douche, Scotch Douche, Electrical baths, Plombieres treatment, etc. There is an Operating Theatre, a Dental Surgery, an X-Ray Room, an Ultra-violet Apparatus, and a Department for Diathermy and High-frequency treatment. It also contains Laboratories for bio-chemical, bacteriological, and pathological research. Psychotherapeutic treatment is employed when indicated.

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Two miles from the Main Hospital there are several branch establishments and villas situated in a park and farm of 650 acres. Milk, meat, fruit, and vegetables are supplied to the Hospital from the farm, gardens, and orchards of Moulton Park. Occupational therapy is a feature of this branch, and patients are given every facility for occupying themselves in farming, gardening, and fruit growing.

BRYN-Y-NEUADD HALL

The seaside house of St. Andrew's Hospital is beautifully situated in a Park of 330 acres, at Llanfairfechan, amidst the finest scenery in North Wales. On the North-West side of the Estate a mile of sea coast forms the boundary. Patients may visit this branch for a short seaside change or for longer periods. The Hospital has its own private bathing house on the seashore. There is trout-fishing in the park.

At all the branches of the Hospital there are cricket grounds, football and hockey grounds, lawn tennis courts (grass and hard courts), croquet grounds, golf courses, and bowling greens. Ladies and gentlemen have their own gardens, and facilities are provided for handicrafts, such as carpentry, etc.

For terms and further particulars apply to the Medical Superintendent (TELEPHONE: No. 2356 and 2357 Northampton), who can be seen in London by appointment.

PECKHAM HOUSE, 112, Peckham Road, London, S.E.15

Telegrams: "Alleviated, London." **Telephones: Rodney 2641 and 2642.**

The above House is for the care and treatment of persons suffering from mental diseases and nervous disorders. Certified voluntary and temporary patients are received. Separate houses for treatment and accommodation of special cases adjoin the Institution. Occupational therapy, physical drill, and other forms of modern treatment. There is a seaside branch, Kearsney Court, near Dover, to which patients may be sent for treatment or on holiday. Motor drives are arranged when required. Tennis courts. Entertainments, dances, and indoor amusements held throughout the year. Terms from £3 3s. per week. Illustrated prospectus and further particulars can be obtained from the MEDICAL SUPERINTENDENT.

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BOTH MEDICAL and SURGICAL CASES

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Also completely detached Villas for Mild Cases, with private suites if desired. Voluntary Patients received. Twenty acres of Grounds, Hard and Grass Tennis Courts, Putting Greens, Bowls, Croquet, Squash Rackets, Recreation Hall with Badminton Court, and all indoor amusements, including Wireless and other Concerts, Occupational Therapy, Calisthenics, and Dancing Classes. X-ray and Actino-therapy, Prolonged Immersion Baths, Operating Theatre, Pathological Laboratory, Dental Surgery, and Ophthalmic Department. Chapel. **Shock and also modified Insulin Therapy.**

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This REGISTERED HOSPITAL, with a SEASIDE BRANCH at Colwyn Bay, N. Wales, is for the treatment and care of those of the Upper and Middle Classes suffering from MENTAL AND NERVOUS DISEASES.

The Hospital is governed by a COMMITTEE, appointed by the TRUSTEES of the Manchester Royal Infirmary.

In addition to the Main Buildings there are separate villas. Extensive grounds. Hard and grass tennis courts, cricket and croquet grounds, and a court for badminton. There are also wireless installations. Golf may be had within easy distance. Occupational Therapy.

VOLUNTARY, TEMPORARY, AND CERTIFIED PATIENTS received.

The Hospital is nine miles from Manchester, 50 minutes by rail from Liverpool, and 3½ hours from London.

For terms and further particulars apply to the Medical Superintendent, who may be seen in Manchester BY APPOINTMENT. *Telephone: Gatley* 2231 (3 lines).

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Every facility for complete investigation and individual treatment on the most modern lines. Physiotherapy Department fully equipped for X-ray work, heliotherapy, short-wave therapy, electrotherapy, and hydrotherapy.

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The hospital grounds extending to nearly 1000 acres are situated in delightful country and include an extensive farm (T.T. herd), gardens, and orchards.

Private rooms, suites, villas, and special nurses available. As the hospital is well endowed terms are exceptionally moderate, e.g., First Department 3 to 30 guineas per week, Second Department 2 and 2½ guineas per week. Voluntary and certified patients are received. Medical Certificates given anywhere in the British Isles are valid for admission of patients.

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The Secretary, New Lodge Clinic, Windsor Forest, Berks. *Telephone:* **181 & 182, Winkfield Row.**

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A PRIVATE HOME for the treatment of gentlemen suffering from Mental and Nervous illness, including the allied Disorders of Alcoholism and the Drug Habit. All types of early Mental and Nervous Cases are received without Certificates as Voluntary Patients under the provisions of the Mental Treatment Act, 1930. Bracing hill country. See "Medical Directory," p. 2368.—Apply to the Medical Superintendent. 'Phone 10 P.O., Church Stretton.

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London County Council. — Accommodation for Male Patients suffering from nervous and mental disorder (voluntary, temporary, or certified) is provided in the private section of Claybury Hospital, Woodford-bridge, Essex. Terms, exclusive of clothing and special luxuries, 49s. a week for London cases, 53s. 1d. a week for others.

For particulars apply to the Medical Superintendent at the Hospital, or to the Chief Officer, Mental Hospitals Department, Shell-Mex House, Strand, W.C.2.

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A PRIVATE HOSPITAL for the treatment of mental and nervous illnesses. Conveniently situated and easy of access from all parts. Occupational Therapy, Psychotherapy, and other modern forms of treatment.

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Ladies only received

The Grove, Old Catton, Norwich.

A High-class Home for the Curative Treatment of Nervous Affections. Voluntary Boarders are also received without certificates.

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A REGISTERED HOSPITAL FOR THE CARE AND TREATMENT OF LADIES AND GENTLEMEN SUFFERING FROM NERVOUS AND MENTAL DISORDERS.

Within two miles of the G.W. and L.M. & S. Railway Stations at Gloucester, the Hospital is easily accessible by rail from London and all other parts of the United Kingdom. It is beautifully situated at the foot of the Cotswold Hills, and stands in its own grounds of over 300 acres. Voluntary Patients of both sexes also are received for treatment. Special accommodation is also provided at five villa residences, all of which stand in their own grounds and are entirely separate from the main Hospital.

For particulars as to terms, &c., apply to G. W. T. H. FLEMING, M.R.C.S., L.R.C.P., D.P.M., Physician Superintendent.
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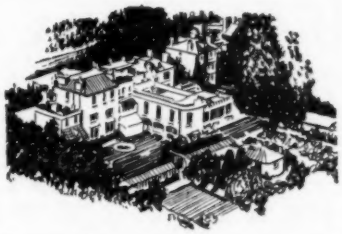

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'Phone: Matlock 17 (3 lines). *'Grams:* Smedleys, Matlock.

Charing Cross Hospital.

REGISTRAR.

Applications are invited from Registered Medical Practitioners for the post of Part-time Registrar (Male) to the FRACTURE CLINIC and ORTHOPÆDIC DEPARTMENT. Honorarium £100 per annum.

Applications, together with copies of three testimonials, should be sent to the undersigned by Saturday, 25th February, 1939.

GEORGE J. JONES, Secretary.

Charing Cross Hospital, London, W.C.2.

Charing Cross Hospital, W.C.2.

SURGICAL REGISTRAR.

The Council invite applications from candidates who must be registered Medical Practitioners (Male) for the post of Second Surgical Registrar. Honorarium £150 per annum.

A copy of the regulations can be obtained from the undersigned to whom applications, together with copies of three testimonials, must be submitted not later than Saturday, 25th February, 1939.

GEO. J. JONES, Secretary.

Charing Cross Hospital, London, W.C.2.

TANCRED'S STUDENTSHIPS

About Whitsuntide next the Governors and Trustees propose to elect One Student in Divinity at Christ's College, Cambridge, One Student in Physic at Gonville and Caius College, Cambridge, and One Student in Law at Lincoln's Inn.

Candidates must have been born in England, Scotland, or Wales and be members of the Church of England and unmarried.

An examination will be held at Gonville and Caius College on Friday, 14th April, for Divinity and Physic Candidates, who must be within the ages of seventeen and twenty years. There will be no examination for the Law Candidates who must be within the ages of nineteen and twenty-three years.

The annual stipend of each student is £100.

The last day for sending in Petitions is March 14th.

Applications, stating *kind* of studentship and mentioning this paper should be made to the Clerk, Mr. CHOLMELEY, 28, Lincoln's Inn-fields, London, W.C.2.

Albert Dock Hospital, Alnwick Road,

E.16. (Seamen's Hospital Society).—SECOND RESIDENT MEDICAL OFFICER required for six months from the 1st April. Salary £110 per annum and a proportion of fees, with board, residence, and laundry. Candidates must be male and single.

Applications, with copies of three testimonials, to be sent in on or before the 3rd March, to the undersigned.

F. A. LYON, Secretary,
Seamen's Hospital Society Greenwich, S.E.10.

13th February, 1939.

Dreadnought Hospital,

Greenwich, S.E.10. (Seamen's Hospital Society). (257 Beds.)—HOUSE SURGEON required for six months as from the 1st April. Salary £110 per annum and a proportion of fees, with board, residence, and laundry. V.D. Certificate obtainable. Candidates must be male and single.

Applications, with copies of three testimonials, to be sent in on or before 3rd March to the undersigned.

F. A. LYON, Secretary.

13th February, 1939.

The Royal Cancer Hospital (Free)

(Incorporated under Royal Charter),
Fulham-road, London, S.W.3.

Applications are invited for the post of MEDICAL REGISTRAR. Candidates must be duly qualified and registered under the Medical Act and engaged in consulting practice only. Preference will be given to those holding the diploma of M.R.C.P.

The appointment is made for one year, subject to re-election. Honorarium £150 per annum.

Candidates must call upon each Member of the Medical Committee not later than Monday, 13th March, 1939. A copy of the rules and names and addresses of the Medical Committee may be obtained from the Secretary.

Applications, together with copies only of not more than three recent testimonials, to be sent to the undersigned not later than the first post on Tuesday, 7th March, 1939.

CLEMENT COBBOLD, Secretary.

The Royal Cancer Hospital (Free)

(Incorporated under Royal Charter),
Fulham-road, London, S.W.3.

Applications are invited for the office of ASSISTANT PHYSICIAN to the Hospital. Candidates must be Fellows or Members of the Royal College of Physicians, England, and a graduate in Medicine of a recognised British University.

The appointment is made subject to Rules and Conditions laid down by the Charter of Incorporation, details of which can be obtained from the Secretary.

Applications (eighteen copies), with copies of not more than three recent testimonials, should be sent to the undersigned not later than the first post on Tuesday, 7th March, 1939.

CLEMENT COBBOLD, Secretary.

The Royal Cancer Hospital (Free)

(Incorporated under Royal Charter),
Fulham-road, London, S.W.3.

Applications are invited for the post of full-time ASSISTANT RADIOLOGIST at the Hospital for the THERAPEUTIC DEPARTMENT.

Applicants must be registered Medical Practitioners who hold a diploma in Radiology.

The appointment will be for one year commencing on 16th March, 1939, at a salary at the rate of £350 per annum.

Applications, to be made on a form which will be supplied by the Secretary, together with three (copies only) recent testimonials, should be sent to the undersigned not later than the first post on Tuesday, 7th March, 1939.

CLEMENT COBBOLD, Secretary.

The Royal Cancer Hospital (Free)

(Incorporated under Royal Charter),
Fulham-road, London, S.W.3.

Applications are invited for the two posts of SURGICAL REGISTRAR. Candidates must be duly qualified and registered under the Medical Act, and engaged in consulting practice only. Preference will be given to those holding the diploma of F.R.C.S. Eng.

The appointments are made for one year, subject to re-election. Honorarium £150 per annum.

Candidates must call upon each Member of the Medical Committee not later than Monday, 13th March, 1939. A copy of the rules and names and addresses of the Medical Committee may be obtained from the Secretary.

Applications, together with copies only of not more than three recent testimonials, to be sent to the undersigned not later than the first post on Tuesday, 7th March, 1939.

CLEMENT COBBOLD, Secretary.

The Prince of Wales's General Hospital,

London, N.15.

The Governors of the Prince of Wales's General Hospital will shortly proceed to the election of an HONORARY ASSISTANT RADIOLOGIST.

Applications are invited from registered Medical Practitioners who are engaged in the practice of Radiology. The possession of a recognised diploma in Radiology is desirable.

A certain amount of private work is undertaken in the Department, from which fees accrue to the Honorary Officers of the Department. Particulars of these fees may be obtained from the Director.

Applications, together with copies of three recent testimonials, should reach the undersigned on or before Monday, March 13th.

J. C. BURDETT, Director and House Governor.

15th February, 1938.

Royal Eye Hospital,

St. George's-circus, S.E.1.

SENIOR HOUSE SURGEON and TWO ASSISTANT HOUSE SURGEONS required at the above Hospital. The appointment is in the first instance for a period of six months, with board and residence, as from 1st April.

Salaries: Senior House Surgeon, £150 per annum. Assistant House Surgeons, £100 per annum.

Candidates must be duly registered Practitioners. Applications, with copies of three recent testimonials, should be sent to the Secretary not later than Tuesday, 28th February.

F. E. D'ALTON, Secretary.

British Postgraduate Medical School.

Applications are invited for the post of RESIDENT ANÆSTHETIST on the staff of the British Postgraduate Medical School at Hammersmith Hospital, Ducane-road, Shepherd's Bush, London, W.12. The appointment will be for six months, to commence duty on 1st April, 1939.

Salary will be at the rate of £150 per annum, with board, lodging, and laundry. Preference will be given to candidates who have held a similar appointment.

Applications, with copies of testimonials, should be sent to the Dean, British Postgraduate Medical School, Ducane-road, Shepherd's Bush, London, W.12, not later than the morning of Monday, 6th March, 1939.

Connaught Hospital, E.17.

FOR WALTHAMSTOW, WANSTEAD, LEYTON, AND CHINGFORD.

Applications are invited for the appointment of HONORARY PHYSICIAN. Candidates must be Members or Fellows of the Royal College of Physicians.

Applications, together with copies of three testimonials, should be received by 3rd March.

The Hospital is one of 118 Beds, including private wards.

R. HALTON HARRISON, General Secretary.

University of London.—The Senate

invite applications for the UNIVERSITY CHAIR OF MEDICINE tenable at St. Mary's Hospital Medical School. Salary £2000 a year. Applications (twelve copies) must be received not later than first post on 22nd March, 1939, by the Academic Registrar, University of London: Senate House, W.C.1, from whom further particulars should be obtained.

ROYAL NAVAL MEDICAL SERVICE

Vacancies exist for MEDICAL OFFICERS in the Royal Navy, and applications are invited for entry in March, 1939.

Candidates below the age of 28 years are preferred, and they must be registered under the Medical Acts. No examination in professional subjects will be held but candidates will be required to attend for interview by a Selection Board.

Selected candidates will be entered for Service for a period of three years, which if desired is usually extended to five years at the discretion of the Admiralty.

Officers who leave the Service at the end of the initial period of three years will be eligible for a gratuity of £400, and those who leave at the end of five years for a gratuity of £1,000.

At the end of five years' Short Service permanent commissions will be given to selected officers who wish to make the Naval Medical Service their permanent career. Officers transferred to the permanent list will receive a gratuity of £1,000 (less Income Tax).

Full opportunities exist for transfer to the permanent list. Marriage Allowance is paid under the same conditions as for other Naval Officers.

Opportunities are available for officers on the permanent list for post-graduate study, to specialise, to take higher examinations and to obtain further qualifications.

Copies of the regulations for entry and conditions of Service, including rates of pay, allowances and retired pay, may be obtained from the Medical Director-General of the Navy, Admiralty, S.W.1, and from the Deans of all Medical Schools.

Applications for entry from intending candidates must be received not later than 28th February, 1939.

The Royal Cancer Hospital (Free)

(Incorporated under Royal Charter),
Fulham-road, London, S.W.3.

Applications are invited for the post of RADIUM THERAPIST (full-time).

Applicants must be registered Medical Practitioners, who hold a diploma in Radiology.

The appointment will be for one year (subject to renewal) commencing on the 1st April, 1939, at a salary at the rate of £650 per annum.

The present Assistant Radium Therapist is an applicant for the post and in the event of his appointment there will be a vacancy for an ASSISTANT RADIUM THERAPIST at a salary of £400 per annum, for which applications are also invited.

Applications, to be made on a form which will be supplied by the Secretary, together with copies only of three recent testimonials, should be sent to the undersigned not later than the first post on Monday, 13th March, 1939.

CLEMENT COBBOLD, Secretary.

The Royal Cancer Hospital (Free)

(Incorporated under Royal Charter),
Fulham-road, London, S.W.3.

Applications are invited for the post of full-time ASSISTANT RADIOLOGIST at the Hospital for the DIAGNOSTIC DEPARTMENT.

Applicants must be registered Medical Practitioners who hold a Diploma in Radiology.

The appointment will be for one year commencing on the 1st April, 1939, at a salary at the rate of £350 per annum.

Applications, to be made on a form which will be supplied by the Secretary, together with three recent testimonials, should be sent to the undersigned not later than the first post on Monday, 13th March, 1939.

CLEMENT COBBOLD, Secretary.

Golden Square Throat, Nose and Ear

HOSPITAL, London, W.1.

Applications are invited for the following posts :—

1. HONORARY ANÆSTHETIST.
2. REGISTRAR.
3. CLINICAL ASSISTANT.

Applications, stating age, qualification, and experience, and with copies of three testimonials, should reach the undersigned (from whom copies of the respective rules may be obtained) on or before 11th March, 1939.

F. P. CARROLL, Secretary-Superintendent.

Royal London Ophthalmic Hospital

(MOORFIELDS EYE HOSPITAL), City-road, E.C.1.

Applications are invited for the posts of OUT-PATIENT OFFICERS to attend on (*a*) Mondays and Thursdays; (*b*) Tuesdays and Fridays; and (*c*) Wednesdays and Saturdays (mornings) each week.

Candidates must be registered Medical Practitioners.

Salary at the rate of £150 per annum for two attendances or £300 for four attendances each week. Out-patient Officers will be appointed for a period of one year and will be eligible for reappointment.

Copies of regulations can be obtained on application.

Applications, with testimonials, stating age and qualifications, together with photograph, must be received by the undersigned not later than 6th March, 1939.

A. J. M. TARRANT, Secretary.

Royal London Ophthalmic Hospital

(MOORFIELDS EYE HOSPITAL), City-road, E.C.1.

Applications are invited for the posts of FIRST ASSISTANT MEDICAL OFFICERS to attend on (*a*) Mondays and Thursdays; (*b*) Tuesdays and Fridays; and (*c*) Wednesdays and Saturdays (mornings) each week.

Candidates must be registered Medical Practitioners.

Salary at the rate of £150 per annum for two attendances each week. First Assistant Medical Officers will be appointed for a period of one year and will be eligible for reappointment.

Copies of regulations can be obtained on application.

Applications, with testimonials, stating age and qualifications, together with photograph, must be received by the undersigned not later than 6th March, 1939.

A. J. M. TARRANT, Secretary.

The Princess Beatrice Hospital,

Earl's Court, London, S.W.5.
General Hospital. (85 Beds.)

CASUALTY OFFICER AND OBSTETRIC HOUSE SURGEON (Male or Female) required for a period of six months as from April 1st, 1939.

Salary at the rate of £110 per annum, with board, residence and laundry (together with £10 to cover all duties during the six months relating to private patients). Previous resident experience desirable, but not essential.

Full particulars may be obtained from the Secretary, by whom applications, with copies of three recent testimonials, should be received not later than 9 A.M., Tuesday, 7th March, 1939.

The Poplar Hospital.

Applications are invited for the appointment of
HONORARY RADIOLOGIST.

The appointment involves two half-days each week and an honorarium is offered of £100 per annum.

Applications, with two references, should be forwarded to the Secretary, Poplar Hospital, East India Dock-road, not later than Thursday, March 2nd, 1939.

D. H. LINDSAY, House Governor and Secretary.

St. Peter's Hospital for Stone, &c.,

Henrietta-street, Covent Garden, W.C.2.

The office of HOUSE SURGEON will fall vacant on 1st April, 1939, and applications are invited from Male candidates with previous experience in a similar office at a General Hospital. The salary offered is at the rate of £75 per annum, with board, lodging, and laundry.

At the expiration of six months' term of office, and subject to the recommendation of the Medical Committee, the House Surgeon is appointed Resident Surgical Officer for a further similar period. Candidates should therefore be prepared, if successful, to remain at the Hospital for twelve months in all.

Applications, accompanied by copies of testimonials, should be forwarded to reach the undersigned not later than the first post on Tuesday, 7th March, 1939.

BEECHEY ROGERS, Secretary.

University of London.

THE UNIVERSITY STUDENTSHIP IN PHYSIOLOGY of the value of £100 is offered to a student qualified to undertake research in Physiology.

Applications must reach the Principal, University of London, The Senate House, W.C.1 (from whom further particulars may be obtained), not later than 20th April, 1939.

February, 1939.

The Princess Elizabeth of York

HOSPITAL FOR CHILDREN, Shadwell, London, E.1.
(Formerly East London Hospital for Children)
(135 Beds.)

A HOUSE PHYSICIAN is required on 1st April, 1939, by the above Hospital. Candidates are invited to send in their applications, addressed to the Secretary, not later than first post on Tuesday, March 7th, accompanied by copies of not more than three recent testimonials, and evidence of having held a responsible hospital appointment. The appointment is for six months. Salary at the rate of £125 per annum, with board, residence, and laundry.

Candidates must be properly registered in this country. Forms of application and copies of the rules can be obtained from the Secretary-Superintendent.

St. George's Hospital, S.W.1.

Applications are invited for the appointment of SURGEON to the EAR, NOSE, AND THROAT DEPARTMENT at the above Hospital.

Candidates, who have had special experience in aural and throat surgery and are registered according to the Medical Act, 1858, should send in their applications, accompanied by not less than three testimonials of recent date, to the Secretary on or before March 3rd, 1939.

JAMES M. CHURCHFIELD, Secretary.

15th February, 1939.

St. Bartholomew's Hospital, E.C.1.

APPOINTMENT OF DENTAL HOUSE SURGEON.

Applications are invited for the Office of House Surgeon to the Dental Department.

Candidates must hold a registrable Dental qualification and a Medical qualification in addition is desirable, but not essential.

Candidates will be required to call upon the three Dental Surgeons and the three Assistant Dental Surgeons.

Appointment will be made for six or twelve months as from 1st May, 1939.

A salary attaching to the office is £80 per annum (non-resident).

Twelve copies of applications with testimonials, should be left with the undersigned not later than Saturday, 25th March, 1939.

C. C. CARUS-WILSON, Clerk to the Governors.

21st February, 1939.

The South London Hospital for Women,

Clapham Common, S.W.4.
(140 Beds.)
A General Hospital for Women and Children.

Applications are invited from Medical Women for the undermentioned appointment :—

HOUSE PHYSICIAN for a period of six months from April 1st, 1939.

Salary at the rate of £100 per annum, with board, residence and laundry.

Candidates are requested to call on members of the Hon. Medical Staff before Saturday, March 11th, by which date applications and copies of testimonials must reach the Secretary at the Hospital.

The Queen's Hospital for Children,

Hackney-road, E.2, Bis. 4633.

DENTAL SURGEON required from 18th April, 1939, for L.C.C. School-children's Clinic. Attendance on Wednesday and Friday mornings, Friday afternoons, and on alternate Tuesday mornings. Present salary at rate of £1 7s. 3d. per session.

Applications, giving particulars of qualifications and experience, should be addressed to the Secretary, as above, not later than 8th March, 1939.

The London Lock Hospital,

283, Harrow-road, W.9.

Applications are invited for a RESIDENT MEDICAL OFFICER (Male) to all Departments. Candidates must be doubly qualified and duly registered. The appointment is for six months commencing 13th March ; salary at the rate of £175 per annum, with furnished rooms, full board and laundry. Preference will be given to candidates having previous obstetric experience.

Applications, enclosing copies (only) of three recent testimonials, must be in the hands of the Secretary (from whom further particulars can be obtained) by first post on Friday, 3rd March.

Central London Throat, Nose and Ear

HOSPITAL, Gray's Inn-road, W.C.1.

RESIDENT HOUSE SURGEON (Male).

There will be a vacancy for a Third Resident House Surgeon to enter on duty on 1st April next. The appointment will be for a period of nine months : three months as Third ; three months as Second ; and three months as First House Surgeon. Remuneration at the rate of £75 per annum.

Applications, accompanied by copies of not more than three recent testimonials, should be sent to the undersigned not later than 3rd March.

JOHN H. YOUNG, Secretary-Superintendent.

King Edward Memorial Hospital,

EALING. (145 Beds.)

RESIDENT MEDICAL OFFICER (Male) required for 1st April, 1939. Work mainly surgical. Six months' appointment with possibility of re-election for a further period. Salary £275 per annum, with usual residential emoluments. Applicants must have had good experience (at least two years) in house appointments.

Applications, stating age, experience and qualifications, and accompanied by copies of two recent testimonials, to be sent to the undersigned by 3rd March, 1939.

R. A. MICKELWRIGHT, House Governor.

Royal Masonic Hospital,

Ravenscourt-park, W.6.

Two RESIDENT SURGICAL OFFICERS (Male) are required. Duties to commence 1st April, 1939. Salary at the rate of £250 per annum, with board, residence and laundry. The appointments are for six months. Candidates must be registered, and must have held resident appointments at a general hospital. The Institution (145 Beds at present, but to be increased) is primarily for paying patients of both sexes of moderate means usually unable to afford ordinary nursing-home treatment, &c.

Applications, stating full particulars, to be sent on or before Monday, 6th March, 1939, to the Honorary Secretaries, from whom further information may be obtained.

The Royal Waterloo Hospital for

CHILDREN AND WOMEN, Waterloo-road, S.E.1.

ANÆSTHETIST.

There is a vacancy for an Anæsthetist (Male) at the above Hospital. Honorarium £100 per annum.

Applications, accompanied by three testimonials, should be sent to the undersigned, from whom further particulars can be obtained, not later than March 4th.

J. H. TEASDALE, Secretary.

Bearsted Memorial Hospital

(JEWISH MATERNITY HOSPITAL INCORPORATED),
Underwood-road, London, E.1.

RESIDENT MEDICAL OFFICER required. Board, residence, and laundry provided, with salary at the rate of £100 per annum. The appointment is for four months with option of extension to six months. Candidates may be male or female.

Applications, with copies of three testimonials, should reach the Secretary by 4th March. Appointment commences 1st April.

Invalid and Crippled Childrens'

HOSPITAL, Balaam-street, E.13. (36 Beds.)

HOUSE PHYSICIAN (Male or Female).

Applications are invited for the above appointment which is now vacant. Salary £100 plus board, residence and laundry.

Anæsthetic experience is desirable.

Applications, addressed to the Secretary, should be sent immediately.

Hospital for Consumption and Diseases
OF THE CHEST, BROMPTON, S.W.3.

The Committee of Management invite applications for the post of HOUSE PHYSICIAN (Male) for seven to eight months at the Sanatorium at Frimley. Honorarium at the rate of £100 per annum, with board and residence.

Applications, with copies of testimonials, must be addressed to the undersigned.

F. G. ROUVRAY, Secretary.

Brompton, February, 1939.

General Lying-in Hospital, York-road,
Lambeth, S.E.1.

Applications invited for the post of JUNIOR RESIDENT MEDICAL OFFICER AND ANÆSTHETIST. Salary at the rate of £100 per annum, with board, residence and laundry. Appointment for three months, commencing 1st April, 1939. The successful candidate will, subject to satisfactory service, be required to succeed to the Senior Medical Officer's post for a further three months.

Applications, stating age and qualifications, with copies of three recent testimonials, to be sent to the Secretary not later than Monday, 13th March, 1939.

London County Council.

ASSISTANT DISTRICT MEDICAL OFFICER required for Area IV, District D (part St. Marylebone and part Paddington).

Provisional salary £150.

Person appointed required to reside in or near district.

Application form with further particulars obtainable (stamped) addressed foolscap envelope necessary) from Medical Officer of Health, Staff Division 2(B), County Hall, S.E.1, returnable by 11th March, 1939.

Canvassing disqualifies.

Royal Free Hospital,
Gray's Inn-road, W.C.1.

Applications are invited from duly qualified and registered Medical Women for the following post:—

RESIDENT CASUALTY OFFICER.

Duties to commence 1st April, 1939, for six months. Salary £150 per annum. Candidates must have held previous resident Hospital appointments.

The undersigned will supply application forms which should be completed and returned to him, accompanied by copies of three recent testimonials, on or before the 4th March, 1939.

RICHARD T. BARTLEY, Secretary.

Royal Northern Hospital,
Holloway, N.7.

Applications are invited for the post of PATHOLOGICAL REGISTRAR vacant on 19th April, 1939. The appointment is for one year with eligibility for re-election. Times of attendance on application.

Honorarium £200 per annum, with lunch and tea provided.

Applications, with copies of testimonials, should be sent by March 3rd to the undersigned, from whom the necessary forms of application and rules can be obtained.

GILBERT G. PANTER, Secretary.

Royal Northern Hospital,
Holloway, N.7.

Applications are invited for the following appointment—HOUSE PHYSICIAN, vacant 20th March. The appointment is for eight months (two months as Out-patient Medical Officer and Anæsthetist and six months as House Physician). Salary at the rate of £70 per annum, with board, residence, and laundry.

Applications, with copies of testimonials, should be sent by 3rd March to the undersigned, from whom the necessary forms of application and rules can be obtained.

GILBERT G. PANTER, Secretary.

London Hospital, E.1.

Applications are invited for the post of SURGICAL FIRST ASSISTANT AND REGISTRAR.

Candidates must be Fellows of the Royal College of Surgeons. The appointment is for one year, but is renewable annually on application for two further periods of one year. Salary £300 per annum payable by the Hospital and Medical College jointly.

Applications should arrive at the Hospital not later than by the first post on Saturday, March 11th.

H. L. MILSOM, Secretary.

London Hospital, E.1.

There is a vacancy for the post of RESIDENT ANÆSTHETIST.

The appointment is for one year, renewable up to three years.

Salary £150 per annum, rising to £200 if appointment renewed.

Applications should be sent to the Secretary, from whom further particulars may be obtained, and should arrive not later than Saturday, March 11th.

H. L. MILSOM, Secretary.

The Chester Royal Infirmary.
(225 Beds.)

Applications are invited for the following appointments. Duties to commence on the 1st April.

HOUSE PHYSICIAN (Male). The appointment is approved for the purposes of the M.D. Examinations of the University of London.

HOUSE SURGEON (Male). The appointment is approved in connexion with the M.S. (London University) and F.R.C.S. (Eng.) Examinations.

HOUSE SURGEON (Male) to the EAR, NOSE, AND THROAT, AND GYNÆCOLOGICAL DEPARTMENTS. The appointment is approved for the purposes of the D.L.O. Examination.

Salary £150 per annum, with board, lodging, and laundry.

Application list closes 8th March, 1939.

Application forms may be obtained from:—

W. H. GRACE, M.D., M.R.C.P., Hon. Secretary, Medical Committee.

West Riding County Council.

EDUCATION DEPARTMENT.

Applications are invited from qualified Women for appointment as SUPERVISOR OF MEALS. The duties will be mainly connected with the provision of meals at Children's Meals Centres and at Elementary Schools and other educational institutions, and the person appointed will be required to advise on questions of diet, staffing, equipment, and general organisation. Candidates should have experience in large scale catering and expert knowledge of dietetics, and should give proof of administrative and organising ability. An appropriate degree will be a recommendation. Salary £300–£15–£400. The post is pensionable. Married women are ordinarily ineligible.

Application forms, with further particulars and conditions of appointment, to be obtained from the Education Officer, County Hall, Wakefield, to whom they should be returned not later than 6th March, 1939.

City of Stoke-on-Trent.

MENTAL DEFICIENCY ACTS, 1913–1938.
STALLINGTON HALL CERTIFIED
INSTITUTION, BLYTHE BRIDGE, STAFFS.

Applications are invited for the post of MEDICAL SUPERINTENDENT (Male). Salary £800 per annum, rising to a maximum of £950 per annum, plus house (unfurnished), fuel, light, and laundry valued for the purposes of the Superannuation Acts at £150 per annum, the appointment to be terminable by three months' notice on either side.

Applications, stating age, qualifications, and experience, together with copies of three recent testimonials and marked "Medical Superintendent—Stallington Hall," to be forwarded to the undersigned not later than the 3rd March, 1939.

E. B. SHARPLEY, Town Clerk.

Town Hall, Stoke-on-Trent.

Ancoats Hospital, Manchester, 4.

CASUALTY OFFICER required to commence duty 19th March.

Appointment for twelve months. Salary £150 per annum, with board, residence, laundry, &c. Preference will be given to applicants who have passed the Primary Fellowship Examination of one of the Royal Colleges of Surgeons. The successful applicant will do duty for the Resident Surgical Officer at alternate week-ends and other scheduled times.

Applications, stating age, qualifications, experience, and full particulars of previous appointments to be forwarded to the undersigned on or before Wednesday, 1st March, together with copies of three recent testimonials.

By Order of the Board,
HERBERT J. DAFFORNE,
General Superintendent and Secretary.

Clayton Hospital and Wakefield
GENERAL DISPENSARY, WAKEFIELD.

RESIDENT SURGICAL OFFICER required 1st April, 1939. Salary £250 per annum, plus usual emoluments. Appointment for six months (renewable).

Applicants must be Male, British and single. Previous Hospital experience essential.

Applications accompanied by copies of three testimonials to be sent to the undersigned by the 6th March, 1939.

T. F. W. MACKEOWN, Superintendent and Secretary.

Hertford County Hospital.
(171 Beds. 3 Residents.)

Applications are invited for the post of HOUSE PHYSICIAN (Male).

Salary £150 per annum, with board, residence and laundry. Duties to include Casualty and to commence March 11th. The appointment is for six months in the first instance.

Applications, together with copies of three recent testimonials, should be forwarded to the undersigned not later than 6th March, 1939.

PERCY G. BROOKS, Secretary.

Royal Hospital, Richmond, Surrey.

Applications are invited for the following post which falls vacant on the 20th March, 1939.

RESIDENT MEDICAL OFFICER (Male) (senior of three), £200 per annum. The Hospital is officially recognised for the surgical practice required before admission to the Final Fellowship Examination of the Royal College of Surgeons of England.

Board, furnished apartments, and laundry.

Candidates must be fully qualified, registered, and single.

Form of application can be obtained from the undersigned.

G. M. EDEN, Secretary-Superintendent.

City of Birmingham.

DUDLEY ROAD HOSPITAL.
(926 Beds.)

Applications are invited from fully qualified Medical Practitioners for whole-time appointment as JUNIOR MEDICAL OFFICER (Male) at the Dudley-road Hospital, Birmingham.

The appointment will be for a period of six months, but may be extended for a further period of not exceeding six months. Salary at the rate of £200 per annum and full residential emoluments.

Further particulars may be obtained from the Medical Superintendent at Dudley-road Hospital, to whom applications, stating age, experience, and qualifications, with copies of recent testimonials, should be forwarded not later than Thursday, 9th March, 1939.

Dundee Royal Infirmary.

The Directors invite applications for the appointment to the Honorary Staff of an ASSISTANT VISITING OBSTETRICIAN AND GYNÆCOLOGIST. Particulars of duties, &c., may be obtained from the Medical Superintendent.

Applications and recent testimonials (twenty-four copies of each) should be lodged with the undersigned on or before 18th March, 1939.

W. F. FERGUSON, Secretary.

Royal Infirmary, Dundee.

Royal Sheffield Infirmary and HOSPITAL.

The Court of Management have decided to add a NEUROLOGICAL SURGEON to the Staff and they invite applications from fully qualified candidates.

Particulars may be obtained from :—

W. H. BOOTH, Secretary,
Royal Hospital, West-street,
Sheffield, 1.

St. Anne's Hospital, Altrincham, CHESHIRE.

Applications are invited from registered Medical Practitioners for the post of RESIDENT SURGICAL OFFICER at the above Ear, Nose, and Throat Hospital (50 beds). Salary £200 per annum, with board, apartments, &c. The appointment is for six months and is renewable. The post offers ample facilities for post-graduate studies.

Applications, with copies of testimonials, to be sent not later than 11th March to W. HUNT, Secretary, 45, Hardman-street, Manchester 3.

The Prince of Wales's Hospital, DEVONPORT.

(Formerly Royal Albert Hospital, Devonport.)
(64 Beds.)

There are vacancies for a SENIOR and JUNIOR HOUSE SURGEON at the above hospital. Applications are invited for the same. Salary £130 and £120 per annum respectively, with board, residence, and laundry.

Appointments are tenable for six months and are subject to renewal. Duties to commence 3rd April and 28th March respectively. Applicants must be registered under the Medical Acts.

The hospital is officially recognised for the surgical practice required before admission to the Final Fellowship Examination of the Royal College of Surgeons of England.

Applications, stating age and qualifications, with copies of three recent testimonials, must reach the undersigned by the 10th March.

ARTHUR R. CASH, General Superintendent.

Prince of Wales's Hospital, Greenbank-road, Plymouth,
20th February, 1939.

Royal United Hospital, Bath.

HOUSE SURGEON required (Obstetrics and Gynæcology and Anæsthetics). Duties to commence March 15th.

Salary £150 per annum, with board, residence, and laundry.

The appointment is for six months, and candidates must be Male, unmarried, and of British nationality.

Applications, stating age, qualifications, and experience, together with a copy of three testimonials, to be addressed to the undersigned by March 7th.

J. LAWRENCE MEARS, Secretary-Superintendent.

20th February, 1939.

Tilbury Hospital, Essex (Seamen's

Hospital Society.) (92 Beds.)—HOUSE SURGEON (Male) required for six months as from the 1st April. Salary £140 per annum, with board, residence, and laundry.

Applications, with copies of three testimonials, to be sent in on or before 8th March, to the undersigned.

F. A. LYON, Secretary,
Seamen's Hospital Society, Greenwich, S.E.10.

13th February, 1939.

Medical Superintendent, Tilbury

HOSPITAL ESSEX. (92 Beds.).—The Committee of Management of the Seamen's Hospital Society invite applications for this appointment, falling vacant on the 1st April. The appointment will be for one year in the first instance but may be renewed for two further periods of one year each to a maximum of three years. Commencing salary £200 per annum, with board, residence, supplemented by certain financial emoluments. Candidates must be Male, single, and not more than thirty-five years of age. Previous operative experience essential.

Applications, with copies of not more than three recent testimonials, to be sent in or before Wednesday, the 8th March, to the undersigned, from whom further particulars may be obtained.

F. A. LYON, Secretary,
Seamen's Hospital, Greenwich, S.E.10.

13th February, 1939.

The Royal Sea Bathing Hospital, MARGATE.

(320 Beds—Mainly for Surgical Tuberculosis.)

A Male HOUSE SURGEON required on the 1st April next. The salary is at the rate of £200 per annum, with board, residence, attendance and laundry. Candidates for the post must be legally qualified and registered, unmarried, and of British nationality. The appointment is for six months, but may be extended for a further period of six months.

Applications, stating age, previous appointments, with copies of three recent testimonials, should be sent to the Secretary, R.S.B.H. Offices, 15, York Buildings, Adelphi, London, W.C.2.

County Borough of Walsall.

ASSISTANT MEDICAL OFFICER OF HEALTH.

Applications are invited from Medical Men for the post of Assistant Medical Officer of Health.

Salary will be at the rate of £500 per annum, rising, subject to satisfactory service, by £50 per annum to £700 per annum.

Applicants must be duly registered Medical Practitioners and be in possession of a Diploma in Public Health.

The Officer appointed will be required to take part in the general public health work of the Borough, including Maternity and Child Welfare and School Medical work.

Statement of duties and terms and conditions of appointment and form of application may be obtained from the undersigned.

Applications should be sent to me not later than 3rd March, 1939. Envelopes to be marked outside "Application re Asst. M.O.H."

The appointment will be subject to the provisions of the Local Government and Other Officers' Superannuation Act, 1922.

Canvassing, directly or indirectly, will be a disqualification.

H. LEE, Town Clerk.

Council House, Walsall, 16th February, 1939.

Royal Devon and Exeter Hospital, EXETER. (280 Beds.)

THREE HOUSE SURGEONS (Male).
ONE HOUSE PHYSICIAN (Male).

Applications are invited for these posts, which become vacant on April 1st.

Appointments are for six months, but candidates are eligible for re-election.

Salary at the rate of £150 per annum, with board, lodging, and washing.

Applications, giving particulars as to age and qualifications, together with copies of three recent testimonials, should be sent to the undersigned on or before Saturday, 4th March, 1939.

S. S. COLE, Secretary and Manager.

N.B.—The duties of the third House Surgeon will be to act as House Surgeon to the Ear, Nose, and Throat Department, and also as House Surgeon to one of the Honorary Surgeons.

Prince of Wales's Hospital,

Lockyer-street, PLYMOUTH.
(Formerly Central Hospital, Lockyer-street, Plymouth.)
(50 Beds.)

Applications are invited for the post of HOUSE SURGEON.

Salary £150 per annum, with board, residence, and laundry.

Duties to commence 19th March.

Appointment is tenable for six months and is subject to renewal.

Applications, stating age and qualifications, with copies of three recent testimonials, to reach the undersigned by 3rd March, 1939.

ARTHUR R. CASH, General Superintendent.
Prince of Wales's Hospital,
Greenbank-road,
Plymouth.

11th February, 1939.

County Borough of Smethwick.

SENIOR ASSISTANT MEDICAL OFFICER OF HEALTH AND ASSISTANT SCHOOL MEDICAL OFFICER.

The Council invite applications from qualified Medical Men for the combined post of Senior Assistant Medical Officer of Health and Assistant School Medical Officer. The officer will rank next in seniority to the Deputy Medical Officer of Health.

The salary will be at the rate of £650 per annum, rising, subject to satisfactory service, by annual increments of £25 to a maximum of £800 per annum. If unmarried the officer will be required to reside at the Isolation Hospital and a deduction of £150 per annum will be made in respect of board, residence, and laundry.

The officer appointed will work under the general supervision and control of the Medical Officer of Health and School Medical Officer, and will be required to render assistance in the general work of the department. The appointment will be subject to the provisions of the Local Government and Other Officers' Superannuation Act, 1922, and the selected candidate will be required to pass a medical examination.

Forms of application may be obtained from the Medical Officer of Health, Public Health Department, Hales-lane, Smethwick, to whom applications, endorsed "Senior Assistant Medical Officer of Health and School Medical Officer" and accompanied by copies of three recent testimonials, must be delivered not later than 11th March, 1939.

Canvassing, directly or indirectly, will disqualify.

FRANK CHAPMAN, Town Clerk.

Council House, Smethwick, 20th February, 1939.

IRAQ GOVERNMENT

APPOINTMENT OF EAR, NOSE, AND THROAT SPECIALIST.

The Iraq Government invite applications from British Specialists for the above appointment of which the following are the particulars:—

Duties.—To be Lecturer on Ear, Nose, and Throat diseases in the Royal College of Medicine, Baghdad, and chief of one of the units for these diseases at the Royal Hospital, Baghdad.

SALARY.—Iraq Dinars 150 per mensem.

Age must not exceed forty-five years. The successful candidate will be required to enter into contract for a period of five years. Consultant practice is allowed provided that it does not interfere with the performance of official duties. The teaching at the Medical College is in the English language.

One Iraq Dinar is equivalent to One Pound Sterling.

Salary will be subject to Iraq Income-tax which is: 150 Dinars exempt, the next 150 Dinars subject to 6 per cent. tax, and the remainder of the income 9 per cent.

Forms of application and copies of the form of contract can be obtained from the Iraq Minister, Royal Iraq Legation, 22, Queen's-gate, London, S.W.7. Particulars as to the Provident Fund, leave, and passage allowance are given in the form of Contract.

No application can be considered unless received on the prescribed form.

UNIVERSITY OF OXFORD

LORD NUFFIELD'S BENEFACTION FOR THE ADVANCEMENT OF MEDICINE

FIRST ASSISTANT IN THE DEPARTMENT OF ANÆSTHETICS.

Applications are invited for the whole-time post of First Assistant in the Department of Anæsthetics.

The successful candidate will be required to assist the Nuffield Professor of Anæsthetics at the Radcliffe Infirmary and to carry out research work in his Department. The appointment will date from 1st May, 1939, or such near date as may be arranged, and will be terminable by three months' notice on either side. The salary offered is £600 a year.

Candidates, who must hold a Medical qualification registrable in Great Britain, must send their applications and the names of three referees to the Secretary of Faculties, University Registry, Oxford, so as to reach him not later than Friday, 31st March, 1939.

All inquiries about the post should be addressed to Professor Macintosh, Radcliffe Infirmary, Oxford.

Cornwall County Council.

EDUCATION DEPARTMENT.

Applications are invited for the post of a SCHOOL MEDICAL INSPECTOR to act under the School Medical Officer in carrying out inspections of school-children and such other duties as may be required by the Education Committee. Candidates should be specially experienced in ophthalmology and be qualified to undertake all school refractions.

The commencing salary will be £600, rising by annual increments of £25 to £700 a year, with travelling allowance on the County Scale.

Applications, stating age, qualifications, and experience, with copies of three recent testimonials, should be sent to the County Medical Officer, County Hall, Truro, by the 15th March.

T. A. H. SHEERS, Clerk of the County Council.

County Hall, Truro, 15th February, 1939.

County Borough of Eastbourne.

APPOINTMENT OF DEPUTY MEDICAL OFFICER OF HEALTH AND DEPUTY SCHOOL MEDICAL OFFICER.

The Council invites applications from duly qualified registered Medical Practitioners for the above appointment.

The duties will especially include the medical inspection of school-children and attendance at the Clinics in connexion therewith, and attendance at the Maternity and Child Welfare Clinics. The Officer appointed will also assist the Medical Officer of Health in other duties when required.

Preference will be given to candidates who have had previous experience in similar duties. The age of candidates must not exceed forty-five years.

The salary will be at the rate of £600 per annum, rising by annual increments of £25 to a maximum of £700 per annum, together with a car allowance of £75 per annum.

The appointment will be subject to the provisions of the Local Government Superannuation Act, 1937, and the successful candidate will be required to pass a medical examination.

Forms of application can be obtained from the undersigned to whom applications, accompanied by copies of not more than three recent testimonials, must be sent not later than 12th March, 1939.

Canvassing, either directly or indirectly, will be a disqualification.

W. G. WILLOUGHBY, Medical Officer of Health.

Avenue House, The Avenue, Eastbourne.

Melton Mowbray Urban District COUNCIL.

MELTON AND BELVOIR RURAL DISTRICT COUNCIL.
BILLESDON RURAL DISTRICT COUNCIL.
OAKHAM URBAN DISTRICT COUNCIL.
OAKHAM RURAL DISTRICT COUNCIL.
UPPINGHAM RURAL DISTRICT COUNCIL.

APPOINTMENT OF WHOLE-TIME MEDICAL OFFICER OF HEALTH.

Applications are invited from duly qualified and registered Medical Practitioners not exceeding forty-five years of age who are also registered in the Medical Register as holders of a Diploma in Sanitary Science, Public Health or State Medicine for the above appointment.

The appointment will be made subject to the approval of the Minister of Health, the provisions of Section 110 of the Local Government, 1933, and the Sanitary Officers (Outside London) Regulations, 1935.

The person appointed will be required to commence his duties on the 1st April, 1939, or such later date as may be agreed and devote the whole of his time to the performance of the duties of the office.

He will not be permitted to engage in private practice as a Medical Practitioner, will be required to enter into an Agreement with each authority and to reside within a prescribed portion of the area.

The salary will be £800 per annum, plus a motor-car allowance.

The appointment is subject to the provisions of the Local Government Superannuation Act, 1937, and the successful candidate will be required to pass a medical examination.

Applications, endorsed "Medical Officer of Health" which should be made on the forms to be obtained from the undersigned, should reach this office on or before the 7th March, 1939.

A. P. MARSH, Clerk.

Melton and Belvoir Rural District Council, 10, High-street, Melton Mowbray, Leicestershire.

17th February, 1939.

Norfolk and Norwich Hospital, NORWICH.

APPOINTMENT OF HONORARY PHYSICIAN.

The Board of Management hereby gives notice that there is a vacancy for an Honorary Physician, which will be filled on Tuesday, the 21st March, at 4.30 P.M.

Candidate for the office of Physician shall produce evidence of being Doctors in Medicine of one of the Universities of the British Empire or Members of the Royal College of Physicians of London and of being registered according to the provisions of the Medical Act. Applications, with copies of testimonials, must be sent not less than seven days before the day of election to the undersigned. There is no Assistant Physician who will be an applicant for this appointment.

By order of the Board of Management,

FRANK INCH, House Governor and Secretary.

24th February, 1939.

Royal Surrey County Hospital, GUILDFORD.

(216 Beds.)

Wanted: TWO HOUSE SURGEONS (Male). 1st April, 1939.

(*a*) General Surgery, Orthopædic and part Casualty duties.

(*b*) General Surgery, Gynæcological and Ophthalmic.

Six months' appointment: recognised for F.R.C.S. examination. Salary £150 per annum, with board, residence, and laundry.

Applications, stating age and essential particulars, with copies of not more than three testimonials, to reach the Secretary-Superintendent not later than first post on 10th March.

City of York.

ASSISTANT MEDICAL OFFICER OF HEALTH (Woman).

The York Corporation invite applications for the above-mentioned post.

The duties will consist chiefly of Maternity and Child Welfare work, and the successful applicant will be provided with board and residence in the Maternity Hospital. She must have had the necessary experience in Ante-Natal Clinic duties to satisfy the Ministry of Health's requirements and must, therefore, have had post-graduate experience in midwifery. She may be required to perform any other duties as Assistant Medical Officer.

Salary £350 per annum, together with emoluments (board-residence, &c.) valued at £150 per annum.

The appointment is for six months in the first instance and if extended by the Council for a period longer than one year, the salary will rise by annual increments of £25 to a maximum of £550.

The Medical Officer of Health is Medical Superintendent of the Hospital and there is a Consultant Medical Officer.

Applications should be made to the undersigned not later than 11th March, giving name, age, address, qualifications (with dates) and experience. Copies of testimonials or references should also be furnished.

Canvassing, directly or indirectly, will disqualify.

P. R. MCNAUGHT, M.D., D.Sc., D.P.H.,
Medical Officer of Health and
Medical Superintendent, Maternity Hospital.

50, Bootham, York, 20th February, 1939.

Middlesex County Council.

WEST MIDDLESEX COUNTY HOSPITAL,
Twickenham-road, ISLEWORTH, MIDDLESEX.

Non-resident CASUALTY MEDICAL OFFICER, registered Medical Practitioner, with considerable all-round experience and as House Physician and House Surgeon in general hospital. Whole-time duties, under supervision of Medical Superintendent, include dealing with casualties and admissions to hospital. Appointment, subject to medical examination, is primarily for six months, but may be extended further six months. Salary £350, with £100 per annum non-resident allowance.

Written applications, stating age, qualifications, and experience, with copies of not more than three recent testimonials, to the undersigned by 11th March, 1939.

Canvassing, directly or indirectly, disqualifies.

C. W. RADCLIFFE, "B.3" Clerk of the County Council.

Guildhall, Westminster, S.W.1.

City of Birmingham.

ROMSLEY HILL SANATORIUM. (120 Beds.)

RESIDENT ASSISTANT MEDICAL OFFICER. (Male.)

Applications are invited for a Male Resident Assistant Medical Officer. Candidates must be unmarried, and have held a resident hospital appointment since qualifying. Experience in the diagnosis and treatment of tuberculosis will be a recommendation.

The appointment will be limited in the first instance to six months, and, subject to satisfactory service, may be extended for a further six months. The salary will be at the rate of £240 per annum for the first six months and £275 per annum for the second six months, with board and residence in each case.

Forms of application may be obtained from the Medical Superintendent, Romsley Hill Sanatorium, Halesowen, near Birmingham, and should be returned to him not later than 3rd March, 1939.

F. H. C. WILTSHIRE, Town Clerk.

NEW ZEALAND

UNIVERSITY OF OTAGO.

LADY KING SCHOLARSHIP.

Applications are invited for the appointment of a Lady King Scholar. The Scholarship was instituted by The Plunket Society to permit of research work being carried on in infant nutrition. The value of the Scholarship is £600 and its tenure is for a year, but may be increased by one further year.

For additional particulars apply to the High Commissioner for New Zealand, 415, Strand, London, W.C.2, by whom completed applications will be received up to the 18th March, 1939.

Salford Royal Hospital.

(256 Beds.)

Applications are invited from registered candidates (Male) for:—

HOUSE SURGEON
CASUALTY HOUSE SURGEON

for six months from April 1st. Salary £125 per annum.

Forms of application, obtainable from the undersigned, should be delivered on or before February 28th.

By Order of the Board,
H. B. SHELSWELL, General Superintendent and Secretary.

17th February, 1939.

City of Manchester.

CRUMPSALL HOSPITAL.
(1543 Beds.)

The Public Health Committee invites applications from registered Medical Practitioners for the post of RESIDENT SURGICAL OFFICER at the above-named hospital.

The salary for the appointment is £400 per annum, rising by £25 annually to a maximum of £450 per annum, with board, residence and laundry in addition, subject to the Manchester Corporation conditions of service.

Applicants must hold a higher qualification in surgery and must have had previous experience in residential hospital posts.

Full information and forms of application may be obtained from the Medical Officer of Health, Town Hall, Manchester, 2, and applications for the post must be received by him not later than March 11th, 1939.

R. H. ADCOCK, Town Clerk.

Town Hall, Manchester, 2, 21st February, 1939.

County Borough of Warrington.

BOROUGH GENERAL HOSPITAL. 300 Beds.

RESIDENT MEDICAL OFFICER. (Male.)

Applications are invited for the post of Resident Medical Officer (Male).

Salary £225 per annum, together with board, residence and laundry at the Hospital.

The above is a General Hospital appropriated by the Local Authority under the Public Health Acts, and the duties of the candidate appointed will chiefly comprise the treatment of patients of the Male Medical and Surgical and Male and Female Mental Wards.

An opportunity for doing some surgical work will be afforded.

There is another Medical Officer in residence, and in addition a Visiting Medical Officer.

Candidates must be single, not exceeding thirty-five years of age, fully qualified and registered.

Appointment for six months, which may be extended for a further period of six months by mutual agreement (appointment limited to one year).

Applications, stating age, qualifications, and experience, together with copies of not less than three testimonials, to be sent to the undersigned not later than first post Friday, 10th March, 1939.

STUART F. ALLISON, M.B., Ch.B., D.P.H.
Medical Officer of Health and
Medical Superintendent of Corporation Hospitals.

Health Department, Warrington, February, 1939.

Addenbrooke's Hospital, Cambridge.

Applications are invited for the post of RESIDENT ANÆSTHETIST AND EMERGENCY OFFICER (Male). The appointment will be for three months from April 1st, 1939. Salary at the rate of £130 per annum, with board, residence, and laundry.

Candidates, who must be unmarried and duly registered, are requested to forward their applications, stating age, qualifications, &c., together with copies of not more than four recent testimonials, to the undersigned on or before Wednesday, March 8th, 1939.

J. A. BEARDSALL, Secretary-Superintendent.

The University of Manchester.

Applications are invited for the post of LECTURER IN HUMAN PHYSIOLOGY. Duties to commence September 29th, 1939. Candidates must possess a registrable medical qualification. Last date for application March 6th.

Further particulars may be obtained from the Registrar, the University, Manchester, 13.

Kent and Canterbury Hospital,

CANTERBURY.
(183 Beds. 4 R.M.O.'s.)

HOUSE SURGEON required, Male, unmarried. Six months' appointment (minimum), commencing middle of March, 1939. Salary £125 per annum, with board, residence, and laundry. The Hospital is recognised under F.R.C.S. regulations.

Applications, together with copies of testimonials, should be sent immediately to the undersigned.

J. F. KENT, Superintendent and Secretary.

St. Anne's Skin and Cancer Hospital,

Northbrook-road, DUBLIN.

Applications are invited for the post of ASSISTANT RADIOLOGIST—Non-Resident.

The appointment is a full-time one, and is for a period of one year in the first instance, subject to two months' notice on either side.

Salary from £300–£400, dependent on experience. D.M.R.E. preferred.

Applications, accompanied by copies of recent testimonials, stating age, qualifications, and previous experience, to be sent to the Medical Superintendent not later than March 7th, 1939.

Kettering and District General

HOSPITAL. (108 Beds.)

Applications are invited for the post of HOUSE PHYSICIAN (Male).

Salary £150 per annum, with board, residence, and laundry. Candidates must be fully qualified and registered.

The appointment is for six months, with eligibility for a further period.

Applications, stating age, nationality, and qualifications, together with copies of three testimonials, to be sent to the undersigned as soon as possible.

G. W. JACKSON, Secretary-Superintendent.

Hull Corporation Health Department.

BEVERLEY ROAD INSTITUTION (HOSPITAL). (400 Beds.)

MALE ASSISTANT MEDICAL OFFICER.

Applications are invited for the above appointment from duly qualified Medical Men, who must be single, and under the age of forty years.

Salary £350 per annum, rising by annual increments of £25 to £450 per annum, together with board, residence and laundry.

The hospital is equipped with X-ray and Ultra-violet Light Departments.

The appointment is subject to the provisions of the Local Government Superannuation Act, 1937.

Applications, on forms to be obtained from the undersigned, are returnable not later than 10 A.M. on Monday, March 13th, 1939.

NICOLAS GEBBIE, M.D., Medical Officer of Health.
Health Department, Guildhall, Hull, February 21st, 1939.

Required by a Company

ASSISTANT MEDICAL OFFICER

for

OILFIELD WORK in TRINIDAD

Age twenty-eight to thirty-five. Minimum qualifications M.R.C.S., L.R.C.P. (London degree preferred). One year's resident teaching at a London Hospital. Diploma of Tropical Medicine and Hygiene an advantage though not essential. Some general practice experience also an advantage. First agreement three years. Adequate salary according to qualifications and experience.

Write Box A.M.O., CENTRAL NEWS, LIMITED,
5, New Bridge-street, London, E.C.4.

The Royal Army Medical Corps ASSOCIATION, 55, Eccleston-square, S.W.1 (Telephone: Victoria 2722), supplies qualified Dispensers, Book-keepers, Laboratory Assistants, Sanitary Assistants, Male Nurses, Mental and Special Treatment Orderlies, Dental Clerk Orderlies, Porters, Caretakers, &c., without charge to respective employers.

Typewriting.—Specialists in Typing Medical and Scientific Papers, Lectures, Theses, and Books. Highest recommendations. Shorthand typists always available. Proof-reading, indexing. Translations in all European languages.—Margaret Watson, Ltd., 16, Palace Chambers, Bridge-street, S.W.1. WHItehall 3838.

Assistant required with a view to Partnership in a Radiological Practice in South Africa. Commencing salary £1200 to £1500 according to experience, but may be increased for exceptional qualifications. A minimum of 2 to 3 years' diagnostic experience is essential. Age under 35.—Address, No. 557, THE LANCET Office, 7, Adam Street, Adelphi, W.C.2.

Young Czechoslov. Lady, med. degree, trained in nursing sick and children, masseuse, experienced housekeeper. Excellent references in England, willing accept any position.—Address, No. 555, THE LANCET Office, 7, Adam-street, Adelphi, W.C.2.

Intelligent Educated Young Lady seeks appointment with Doctor or in Doctor's house. Experienced as Nurse-Receptionist Secretary. Knowledge X-ray work N.H.I. Good housekeeper.—West, Bell Cottage Kynance Mews, S.W.7.

The National University of Ireland APPOINTMENTS COMMITTEE can recommend suitably qualified Medical Graduates as Locum Tenentes or Assistants. Medical practitioners who require such services should apply, stating all particulars, to the Secretary, Appointments Committee, N.U.I., 86, St. Stephen's Green, Dublin. Telephone Dublin 51793.

Wanted by High-class Surgical Instrument Makers in Provinces, Educated MAN experienced in all classes Surgical Appliances and Fitting.—Address, stating experience and salary required, to No. 556, THE LANCET Office, 7, Adam-street, Adelphi, W.C.2.

Practice wanted immediately, Liverpool District. Good Panel and scope essential. Capital available. Please give full particulars in confidence to No. 563, THE LANCET Office, 7, Adam-street, Adelphi, W.C.2.

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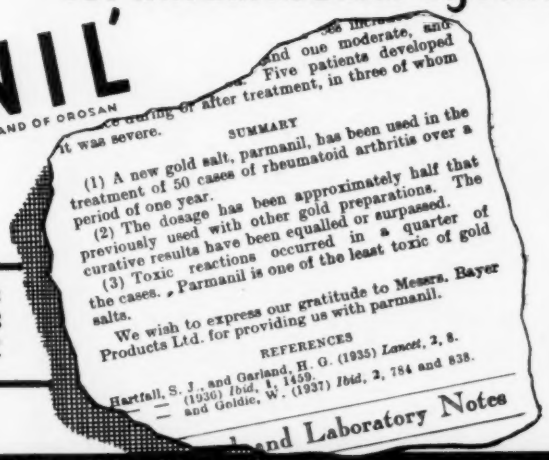
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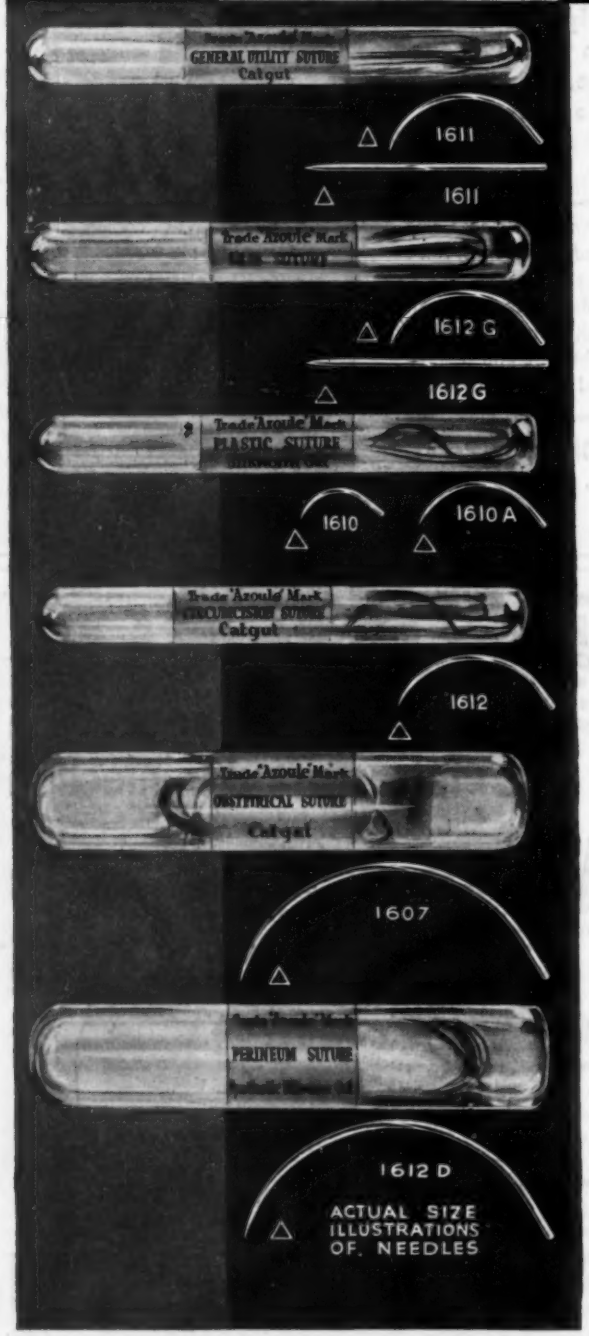

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